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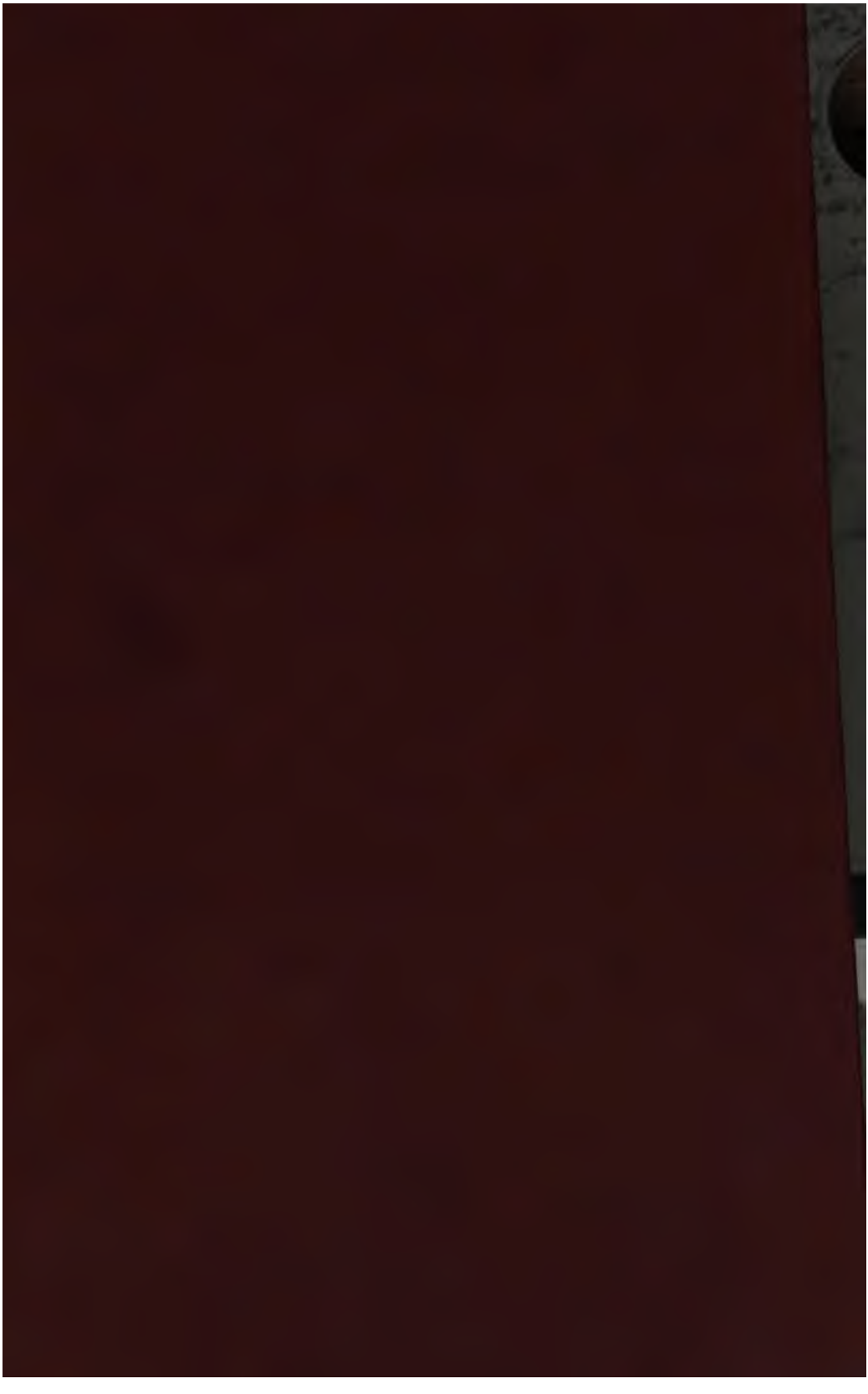
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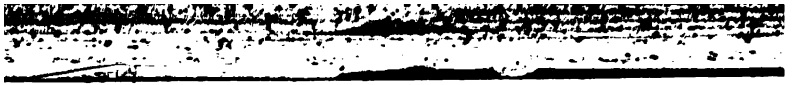
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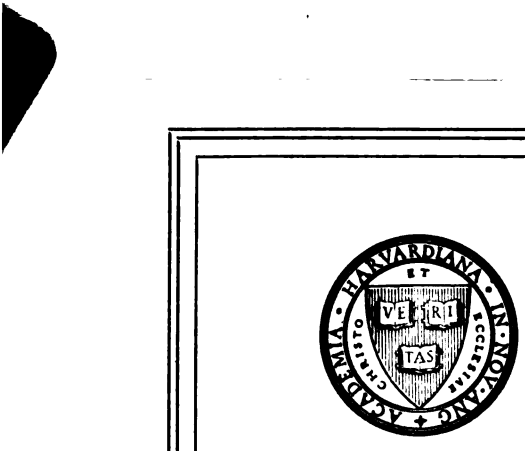
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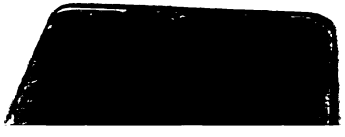


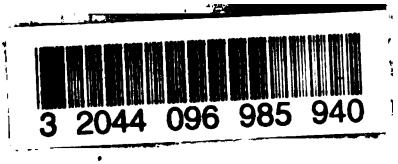
Harvard College Library

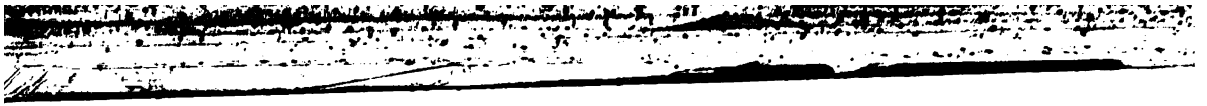
FROM

John Bartlett

Dec. 31, 1857




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THE CLASSED CATALOGUE OF THE EDUCATIONAL DIVISION OF THE SOUTH KENSINGTON MUSEUM.

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CATALOGUE

OF THE

EDUCATIONAL DIVISION

OF THE

SOUTH KENSINGTON MUSEUM.



LONDON:
PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,
PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY.
FOR HER MAJESTY'S STATIONERY OFFICE.

1857.

Price 6d. in Paper Covers, and 1s. half bound in Cloth.

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SOUTH KENSINGTON MUSEUM.

EDUCATIONAL DIVISION.

THE object of this Division of the Museum is to aid all classes of the Public, and especially those engaged in teaching, by bringing together all that is new and worthy of attention in apparatus relating to Education, both in its primary and secondary branches, whether of home or foreign production.

In order to economise as much as possible the time of those seeking information, and to facilitate the means of reference, a system of classification and arrangement of the contents has been adopted, so as to bring together, as far as practicable, all objects of a similar nature, and enable those studying any particular subject to compare one example with another.

It being very desirable that the Collection should at all times represent the existing state of Educational Appliances, every facility will be afforded for the introduction of new Inventions, Books, Diagrams, &c. having reference to Education; and in order to call the attention of the Public more particularly to such new productions, they will be kept separately for a period of eight weeks, previously to being distributed into the various groups of the Collection.

Each object is, or will be, distinctly labelled with its name and uses, the retail price, the name of the donor or exhibitor, and the publisher's address where it may be obtained. The distinctive colours attached to the labels are chiefly intended to facilitate the work of the Attendants in keeping the objects in their proper groups.

The Museum is open to Students on Wednesdays, Thursdays, and Fridays, from 10 A.M. till the hours of 3, 4, 5, or 6 P.M., according

to the season, when any book or object may be obtained for reading or examination, by application to the Attendants. On Wednesday evenings the Museum is lighted from 7 till 10, but no book or object can then be removed from the shelves. On these days the admission is limited to students and annual subscribers of 10*s.*; and the general Public may be admitted on the payment of sixpence each person.

It is requested that students consulting the Collection will take every care of the valuable publications passing through their hands. Persons seeking further information should apply to Mr. R. Thompson, the Superintendent of the Educational Division of the Museum.

On Mondays, Tuesdays, and Saturdays the Museum is open to the Public free at the hours already named, as also on Monday and Tuesday evenings, from 7 till 10. On these days no book or object can be removed from the cases for study.

By order of the Committee of Council on Education.

South Kensington Museum,
18th July 1857.

CLASSIFICATION

OF

THE OBJECTS WHICH MAY BE EXHIBITED

IN

THE EDUCATIONAL DIVISION

OF THE

SOUTH KENSINGTON MUSEUM.

Class 1.

SCHOOL-BUILDINGS AND FITTINGS.

§ I. School Buildings.

a. ***Elevations, Sections, Ground Plans, and Models.***
b. ***Structural Sanitary arrangements*** connected with sewerage, heating and ventilation, playgrounds, &c.
c. ***Arrangements for Personal Cleanliness,*** such as lavatories, baths and bath-rooms, &c.
d. ***Arrangements for Industrial Education.*** Workshop, field and garden, plans, &c.

§ II. School Fittings and Furniture.

a. ***Utensils for the Pupil,*** such as desks, reading stands, forms, &c.
b. ***Fittings for the Teacher,*** such as black-boards, easels, teachers' desks and tables, &c.
c. ***Utensils for Cleanliness,*** such as ink-well fillers and holders, sponge boxes, pen-cleaners, pencil cutters, &c.

Class 2.

GENERAL EDUCATION.

§ I. Reading.

a. ***Alphabet,*** books, sheets, diagrams, and inventions for teaching the alphabet and simple words.
b. ***Progressive exercises*** from simple words to general reading.
c. ***Elocutional exercises.***
d. ***Systems of teaching reading,*** and advanced reading books.

§ II. Writing.

a. ***Works*** on the art of teaching writing.
b. ***Copybooks*** for the several classes of progress.
c. ***Copy slips,*** in the several classes.
d. ***Diagrams,*** &c. for collective teaching.
e. ***Improved pens,*** penholders, &c.
f. ***Models*** of hand with pen, &c.

§ III. Grammar.

a. *Orthography*, books, diagrams, and inventions for teaching the spelling of words.
b. *Parsing*, books, diagrams, &c. for teaching children to parse.
c. *Treatises on grammar*, English.
d. *Exercises for dictation.*
e. *Exercises in composition.*

§ IV. Arithmetic.

a. *Diagrams, mechanical arrangements*, and apparatus for teaching elementary arithmetic, such as the abacus-board, &c.
b. *Elementary works* on number.
c. *Treatises and exercises* on arithmetic, exchanges, &c.
d. *Systems* of teaching arithmetic.
e. *Systems of book-keeping.*

§ V. Mathematics.

a. *Pure* (elementary). Works on algebra, geometry, and trigonometry, and facilities for teaching these subjects.
b. *Pure* (advanced). Works on calculi, Newton's Principia, conic sections, &c.
c. *Applied.* Works on mechanics, dynamics, optics, astronomy, &c.

§ VI. Foreign Languages.

a. *Ancient.* Latin or Greek grammars; exercises in grammar, works for reading, exercises in composition, &c.
b. *Modern.* French, German, &c. grammars; exercises in grammar, speaking and writing, works for reading, &c.

§ VII. Histories.

a. *Diagrams*, plates, &c. for teaching.
b. *Chronological Tables*, and systems of historical mnemonics.
c. *Elementary Histories of Separate Nations*, such as English and Roman Histories.
d. *General Historical Class Books*, combining histories of several nations.
e. *School works on biography.*
f. *Systems* and facilities for teaching history.

§ VIII. Science of Teaching.

a. *Methods and systems of teaching.*
b. *Object lessons*, &c.
c. *Aids to memory*, &c.

Class 3.

DRAWING AND FINE ART.

§ I. Materials.

a. *For Drawing*, such as papers, pencils, chalks, pins, and fasteners, &c.
b. *For Painting*, such as canvass, millboards, pigments, &c.
c. *For Modelling and Carving*, such as clay, wax, stone, wood, &c.
d. *For Engraving*, steel and copper plates, blocks, lithographic stone, &c.

§ II. Implements.

a. *For Drawing*, such as mathematical instruments, &c.
b. *For Painting*, such as brushes, easels, &c.
c. *For Modelling*, modelling tools.
d. *For Engraving*, gravers, &c.

§ III. Examples for Study in Drawing.

a. ***By Instruments,*** such as examples in practical geometry, mechanical and perspective drawing.
b. ***From the Flat,*** outline and shaded examples, both elementary and advanced.
c. ***From the Round,*** such as geometrical solids, casts, &c.
d. ***From Nature,*** such as fruits, flowers, &c.

§ IV. Examples for Painting.

a. ***From the Flat,*** in monochrome and colour.
b. ***From Nature,*** landscapes, flowers, fruits, &c.

§ V. Examples for Modelling.

a. ***From the Round.***
b. ***From Nature.***

Class 4.

MUSIC.

§ I. Practical.

(A.) *Vocal.*

a. ***Solfeggi.***
b. ***Complete vocal schools.***
c. ***Chants, songs, duets,*** &c.
d. ***Sacred and secular compositions of every form.***

(B.) *Instrumental.*

a. ***Instruction books*** for each instrument.
b. ***Scales, exercises, and studies.***
c. ***Complete schools.***
d. ***Various forms of composition,*** viz., sonatas, rondas, &c.

§ II. Theoretical.

a. ***Elementary*** works on the formation of chords, modulation, &c.
b. ***Works on fugue and counterpoint.***

§ III. Instruments, Diagrams, &c.

a. ***Instruments*** used in teaching, viz., the tuning-fork, pitch-pipe, and metronome.
b. ***Diagrams,*** music boards, &c. for collective teaching.
c. ***Plates,*** &c. illustrating the ***vocal organs,*** &c.
d. ***Plates*** and models of ***musical instruments.***
e. ***Musical instruments*** adapted to schools.

Class 5.

HOUSEHOLD ECONOMY.

§ I. Ventilation and Warming.

a. ***Modes of ventilating and warming*** the houses of the poor.

§ II. Cookery.

a. ***Modes of improving the cookery*** and alimentation of the poor.

§ III. Domestic Work.

a. Needlework, Lace-making, Embroidery, and similar household occupations.

§ IV. Ornamentation.

a. Modes of improving the State of Ornament as displayed in houses for the poor.

Class 6.

GEOGRAPHY AND ASTRONOMY.

§ I. Topographical Illustrations.

a. Globes.
b. Maps and Charts.
c. Diagrams.

§ II. Astronomical Illustrations.

a. Celestial Globes.
b. Orreries and Planetariums.
c. Maps, Charts, and Diagrams.

§ III. Nautical Astronomy (for Navigation Schools.)

a. Sextants and Quadrants, Reflecting and Repeating Circles, Dip Sectors, &c.

§ IV. Survey Aids.

a. Topographical Instruments, such as theodolites, levelling apparatus, pocket-sextants, compasses, illustrations, diagrams, &c.
b. Hydrographical Instruments, such as sounding-machines, patent logs, &c.

§ V. Physical Geography.

a. The Distribution of Land and Water. Illustrations of mountains, oceans, lakes, and rivers.
b. Illustrations of Volcanic Phenomena.
c. Illustrations of Meteorological Phenomena and Climate.
d. Geographical distribution of Minerals, Plants, and Animals.
e. Productive Industry of different portions of the Globe, special objects.

Class 7.

NATURAL HISTORY.

§ I. Geology and Mineralogy.

a. Illustrations of Fossils, and Minerals, by Typical Collections.
b. Illustrations of Geological Formations, by maps, sections, models, and diagrams.
c. Illustrations of Crystalline Forms, by models, and diagrams of crystals.

§ II. Botany.

a. Typical Collections, as models of plants, or collections of dried plants, showing their classification or structure.
b. Diagrams, Plates, &c., to illustrate classification or structure.
c. Collections showing the use to which plants are applied, as food, medicine, or for industrial purposes.

§ III. Zoology.

a. Typical Collections of Animals, illustrative of classification and structure.
b. Diagrams and Plates, illustrating classification and structure.
c. Applied Collections, on a small scale, showing the uses to which animal matter is applied in industry.

§ IV. Ethnography.

a. Models, Diagrams, or Illustrations, showing different varieties of the human race.

Class 8.

CHEMISTRY.

a. Pneumatic Chemistry, apparatus such as pneumatic troughs, gas jars, gasometers, &c.
b. Chemistry of Inorganic Bodies. Elementary bodies and their compounds, and apparatus for illustrating their properties by experiment.
c. Chemistry of Organic Bodies.
d. Apparatus for Qualitative and Quantitative Analysis, such as balances, graduated instruments, &c.

Class 9.

PHYSICS.

§ I. Sound.

a. Apparatus for teaching the Principles of Acoustics. The general nature of sound; the laws of vibration of strings, rods, pipes, plates, and bells; the transmission of sounds by various substances; composition of vibrations, &c.
b. Models and Diagrams, to explain the construction and principles of musical instruments.
c. Diagrams and Models of the organs of voice and hearing.

§ II. Light.

a. Simple Apparatus for showing the Reflection, Refraction, and Polarisation of Light, such as plane and curved mirrors, prisms, lenses, polariscopes, &c.
b. Optical Instruments, such as telescopes, microscopes, cameras, &c.
c. Instruments for showing the chemical effects of light, such as cheap forms of photographic apparatus.
d. Diagrams and Models of the organs of vision, and other matters connected with optics.

§ III. Heat.

a. Conduction. Apparatus for showing the conducting powers of different substances.
b. Dilatation. Expansion of solids, liquids, and gases; apparatus illustrating the principles of compensation in chronometers, pendulums, &c.
c. Evaporation. Apparatus to illustrate the principles of evaporation, of latent and specific heat, boiling points under different pressures, spheroidal state, model steam engines, cyrophorus, water hammers, hygrometers, &c.
d. Reflection, Radiation, and Absorption. Mirrors, radiating canisters, &c.
e. Measurement of Heat. Thermometers, pyrometers, &c.

§ IV. Electricity.

A.—*Frictional Electricity.*

a. Apparatus to show the fundamental phenomena of Frictional Electricity, such as glass and wax rods with their rubbers, electroscopes, and electrometers.

b. Electrical Machines in their various forms, the electrophorus, &c.

c. Apparatus, illustrating the induction of electricity, including condensers, Franklin's plates, Leyden jars, &c.

d. Pieces of Apparatus used with electric machines, illustrating electric attractions and repulsions, electric light in rarefied air, &c.

e. Atmospheric Electricity, showing the application of the laws of electricity to natural phenomena.

B.—*Voltaic and Thermo-Electricity.*

a. Various forms of Batteries. Apparatus for showing the heating, luminous, chemical, and magnetical effects of the electric current, applications to the telegraph, bars of antimony and bismuth, thermo-electric piles, &c.

C.—*Magnetism.*

a. Various forms of Magnets, natural magnets, communication of magnetism to iron and steel, inductive action of the earth, mariner's compass, dipping needle, influence of heat on magnets, &c.

D.—*Electro-Magnetism and Magneto-Electricity.*

a. Apparatus showing the mutual action of currents and magnets, the action of two currents upon each other, of a current upon itself, the phenomena of induced currents.

Class 10.

MECHANICAL SCIENCE.

§ I. Mechanics and Mechanism.

a. Kinematics. Models to illustrate the communication and modification of motion in machinery, as toothed wheels, cams, cranks, eccentrics, belts, linkwork, ratchets, &c., with methods of changing and adjusting velocities.

b. Curves. Contrivances for drawing mechanical curves, as ellipses, epicycloids, conchoids, parallel motion curves, &c., with models of parallel motions, oval chucks, geometrical chucks, geometrical pens, and the like.

c. Statics. Apparatus and diagrams for showing the parallelogram of forces, the properties of the mechanical powers (*i.e.* lever, wheel and axle, inclined plane, wedge, screw, and pullies), the centre of gravity, &c. Apparatus for teaching the general principles of statical equilibrium, the laws of friction and elasticity, strength of materials, &c. &c.

d. Dynamics. Apparatus for measuring the work of mechanical agents and machines, such as steam indicators, dinamometers, and apparatus showing the effect of gravity on falling bodies, as Atwood's machine, and to illustrate pendulums, revolving pendulums, bodies rolling down curves, projectiles, collision, rotation, centrifugal force, &c.; also the principles of escapements in clock-work.

e. *Models of simple machines* or parts of machines as best exhibit the application of the mechanical powers, or other general principles.

f. *Actual Construction of Machines.* Parts of real machines or models of them to show the forms and arrangements actually employed in the construction of machinery, as specimens of wheels, shafts, plummer blocks, modes of attaching wheels to their axes, bolts and screws of approved shapes, &c.

g. *Models of Complete Machines,* or of their working parts, for lecturing on processes and manufactures, with sets of specimens of manufacturing processes in their different stages.

h. *Prime Movers.* Models of windmills, waterwheels of different kinds, turbines, and steam engines.

i. *Architectural and Engineering Structures.* Apparatus to illustrate the strength and economy of materials used in construction; models to show the principles of framing, of the arch and vault, and other parts of fixed structures, and also to exhibit the disposition and arrangement of buildings.

k. *Naval mechanism.* Models showing the principles of naval architecture and mechanism, for the use of Navigation Schools.

§ II. Hydrostatics.

a. *Apparatus showing the transmission of pressure* in liquids, such as the hydrostatic paradox, hydrostatic press, bellows, application of pressure to telegraphic purposes, &c.

b. *Apparatus showing that liquids maintain their level.*

c. *Solids immersed in Liquids.* Simple instruments for illustrating specific gravity, and for experimentally showing that the volume of the solid is measured by immersion.

§ III. Hydraulics.

a. *Simple Apparatus showing the efflux of liquids* by currents and jets.

b. *Applications of Water in Motion.* Overshot, undershot, and other wheels, Archimedes screw, &c.

c. *Machines for raising Water.* Various forms of pumps, fire engines, hydraulic rams, siphons, &c.

§ IV. Pneumatics.

a. *Apparatus showing the compressibility and elasticity* of air, such as the flaccid bladder, condensing syringe, cartesian divers, &c.

b. *Weight of Air.* Barometer tubes, Magdeburg hemispheres, &c.

c. *Rarefaction and Condensation of Air.* Exhausting and condensing syringes, air pumps, with their usual apparatus, air guns, air balloons, diving bells, bellows and blowing machines, revolving fans, ventilating pumps, &c.

Class 11.

APPARATUS FOR TEACHING PERSONS OF DEFICIENT FACULTIES.

§ I. Persons Physically Deficient.

A. *Appliances for teaching the deaf and dumb.*

B. *Appliances for teaching the blind.*

- a. Different systems for teaching the blind to read, illustrated by tangible typography.
- b. Contrivances for teaching the blind to write.
- c. Contrivances and tools for teaching various trades, such as brush-making, &c.

§ II. Appliances for Teaching Persons Mentally Deficient.

a. Object-teaching for idiots, imbeciles, &c.
c. Progressive lessons for idiots, &c.

Class 12.

Hygiene and Means of Physical Training.

a. Models of Gymnasia, or small gymnasia for rooms.
b. Various Instruments for Physical Training, such as chest expanders, dumb-bells, jumpers, leaping-poles, &c.
d. Systems for Calisthenic Exercises.
e. Physiological Models, diagrams, &c., for showing the structure of the human body, and the conditions for its health.

LIST OF EXHIBITORS.

Addey & Co.
Allman & Son, 42, Holborn hill.
Ansted, Professor.
Atkins, Richard, 27, Bethel street, Norwich; and 21, High street, Deptford.

Baker, Mr. C., Deaf and Dumb Institution, Doncaster.
Bannister, Rev. Saxe.
Barnes & Co., New York.
Bell, Dr. W., 31, Burton street, Burton crescent.
Bell & Daldy, 186, Fleet street.
Bentley, Joseph, Aldine Chambers, 13, Paternoster row.
Black, A. & C., Edinburgh.
Blackwood & Sons, Edinburgh; and 37, Paternoster row, London.
Blind, Society for Teaching the, Avenue road, St. John's Wood.
Blind, Association for Promoting the Welfare of the, 21, South row, New road.
Barrett, Rev. Alfred, Highgate.
Bateman, J. B.
Bradshaw, Mr., Manchester.
Butter, Henry, Minerva place, Barnsbury park.
British and Foreign School Society, Borough road.
Brucciani, D., 5, Little Russell street, Covent garden.

Cash, W. & F. G., Bishopsgate street Without.
Cassell, John.
Carles, M., Paris.
Ceylon, the Committee of the Government Schools.
Chambers, W. & R., Edinburgh; and 47, Paternoster row, London.
Chapman & Hall, 192, Piccadilly.
Churchill, Mr. J., New Burlington street.
Church of England Sunday School Institute, 41, Ludgate Hill.
Clarke, Joseph, Norwich.
Colles, Rev. W. M., Melton Mowbray.
Collingridge, W. H., Long lane Smithfield.
Congregational Board of Education, Committee of the, Homerton.
Cornish, James, 297, High Holborn.
Cornwell, Dr. J., British and Foreign School Society.
Cowie, Jolland, & Co., 31, Poultry.
Cowper, Professor, (the late).
Cradock & Co., 48, Paternoster row.
Crampton, T., Esq., Brentford.
Cronmire, J. M. & H., Mathematical Instrument Makers, 10, Cottage lane, Commercial road, East.
Curwen, John, Plaistow, Essex.

Davis A. & Co., 58, Houndsditch.
Day & Co., Lithographers, Gate street, Lincoln's inn fields.
Dean & Sons, 31, Ludgate Hill.
Deighton, Bell, & Co., Messrs., Cambridge.
De Porquet, L. P. R. F.
Desobry, Magdeleine, & Co., Paris.

Education, Committee of Council on.
Elliott, Brothers, Opticians, 5, Charing Cross.

Enfield, E. Esq., 5, Oxford square, Hyde park.
Eton College, the Rev. the Master of.
Exhibition of 1851, Her Majesty's Commissioners of.

Gall & Inglis, Edinburgh.
Glasgow, The Normal Seminary.
Grant, Horace, Esq.
Gilbert, James, 49, Paternoster row.
Gover, Edward Princes street, Bedford row.
Griffin J. J., Philosophical Instrument Maker, 119, Bunhill row.
Griffith & Farran, St. Paul's Churchyard.
Groombridge & Sons, 5, Paternoster row.
Granville, The Right Hon. the Earl.

Hachette, L., & Co., 14, Rue Pierre-Sarrazin, Paris.
Hamilton, W., Glasgow.
Hatchard, T., 187, Piccadilly.
Hay, Mr. J. H., Kennington Oval.
Haughton, Mr. T., Manor School, York.
Hesketh, R., Esq., 95, Wimpole street.
Heylin, Alex., 28, Paternoster row.
Hodson, J. S., 22, Portugal street, Lincoln's inn fields.
Home and Colonial School Society, Committee of, St. Chad's row, Gray's Inn Road.
Horne & Thornthwaite, Opticians, &c., 121, Newgate street.
Hughes, W., 13, Paternoster row.
Hughes, E., Royal Naval Lower School, Greenwich.

Ipstones' Schools, near Cheadle, Staffordshire (Mr. J. Stollard, Designer.)
Irish Education, Commissioners of.
Ingram, Cooke, & Co.
Ireland, Commissioners of National Education.
Jarrold & Sons, 47, St. Paul's Churchyard; and Norwich.
Jennens & Bettridge, 6, Halkin street West; and Birmingham.
Johnston, W. & A. K., Edinburgh.
Joseph, Myers, & Co., 144, Leadenhall street.
Jukes & Dunoyer, Professors.

Kent, W., & Co., 51, Paternoster row.
Krantz, ——, Berlin.

Larkin, J. R., 2, St. John's Villa, Blackstock lane, Highbury vale.
Leitch, Neil, Paisley.
Longman & Co., 39, Paternoster row.
Low (Sampson), Son, & Co., Ludgate hill.

Machlachlan & Co., Edinburgh.
McLeod, W., Esq., Royal Military Asylum, Chelsea.
Macmillan & Co., Cambridge.
Masters, J. & Co., Aldersgate street.
Miller & Co, Artist's Colourmen, 56, Long Acre.
Mimpriss, R., & Co., Aldine Chambers, Paternoster row.
Murray, J., 50, Albemarle street.

National Society, Sanctuary, Westminster.
Nattali & Bond, 23, Bedford street, Covent Garden.
Newman, T., Esq,
New York, the Committee of the Board of Education.
Newton & Co., Opticians, &c., 3, Fleet street.
Norwich Training Institution (Rev. A. B. Power, Principal).
Nutt, David, 270, Strand.

Oliver & Boyd, Edinburgh.

Parker, J. H. & Son, 377, Strand; and Oxford.
Parker, J. W. & Son, 445, West Strand.
Parkes, James & Son, 28, Paternoster row, and Birmingham.
Pardoe, Mr. J., St. Margaret's National Schools, Ipswich.
Pasley, General.
Philip & Sons, 32, Fleet street.
Pierce, W., 5, Jermyn street, St. James'.
Pratt, Woodford, & Co., New York.
Prothero, Mr. John, 9, Harrington street, North, Hampstead road.

Reading Reform Association, 9, King's road, Bedford row,
Reeve, Lovell, 5, Henrietta street, Covent garden.
Reformatory and Refuge Union, Committee of, 118, Pall Mall.
Relfe, Brothers, 150, Aldersgate street.
Religious Tract Society, Committee of the, 56, Paternoster row.
Reynolds, Mr. James, 174, Strand.
Rigg, J. & A., George street, Chester.
Rivington, F. & J., Waterloo place.
Routledge & Co., 2, Farringdon street.
Rowney, George, & Co., 10, Percy street, Rathbone place.
Ronge, Messrs. T. & B., Grove House, Kentish town.
Royle, J. F., Esq., M.D.,

Science and Art, Department of.
Scott, Dr. W. R., Deaf and Dumb Institution, Exeter.
Seton, R., Edinburgh.
Sheriff, D. Esq.
Simpkin, Marshall, & Co., 4, Stationers' hall court.
Society for Promoting Christian Knowledge, Great Queen street, Lincoln's inn fields.
Soper, F. L., Margate.
Stainton, H. T. Esq., Mountsfield, Lewisham.
Stanford, Edward, 6, Charing cross.
Stephenson, Rev. Nash, Shirley.
Sunday School Union, Committee of, 54, Old Bailey.

Taylor, J. E., 10, Little Queen street, Lincoln's Inn fields.
Thimm, F., Lower Brook street, Bond street.
Trubner & Co., 60, Paternoster row.
Twining, H., Esq.
Twining, T., Esq.

Unwin, Rev. W. J., M.A., Principal of Homerton Training College.

Walton & Maberly, 28, Upper Gower street; and 27, Ivy lane, Paternoster row.
Ward & Co., 27, Paternoster row.
Ward & Lock, 158, Fleet street.
Weale, J., 59, High Holborn.
Wesleyan Education Committee.
Willis, Professor.
Williams & Norgate, 14, Henrietta street, Covent garden.
Wilkinson, Mr. T., National School, Harrow-on-the-Hill.
Wilson, J. A., 92, Broad street, Aberdeen.
Wilson, Matthew, Normal Seminary, Glasgow.
White, George, Abbey street Schools, Bethnal Green.
Whittemore, Rev. W. M., Rectory, St. James' Within, Aldgate.
Working Men's Educational Union, Committee of, King William Street, West Strand.
Wyand, Son, & Co., 471, Oxford street.
Wyld, James, Charing Cross, East, Strand.

List of Exhibitors' Catalogues, placed in the following order at the end of the General Catalogue.

Atkins, R., Carpenter, 27, Bethel street, Norwich; and 21, High street, Deptford.

Baker, C., Deaf and Dumb Institution, Doncaster.
Bell & Daldy, 186, Fleet street.
Blind, Articles made by, at 21, South row, New road.
British and Foreign School Society, Borough road.
British and Foreign School Society. List of Books adopted by. (Mr. Crossley.)

Chapman & Hall, 193, Piccadilly.
Cronmire, J. M. & H., 10, Cottage lane, Commercial road, East.
Cornwell, Dr., Approved Works by.

Deighton, Bell, & Co., Cambridge.

Groombridge & Sons, 5, Paternoster Row.

Hay, John H. (Class Register, &c.), Kennington Oval.

Jarrold & Sons, 47, St. Paul's Churchyard, and Norwich.
Joseph, Myers, & Co. (Educational Models, &c.), 144, Leadenhall street.

Lake, W. J., City of London Second School, St. Andrew's, Holborn.
Longman & Co., 39, Paternoster row.

Macmillan & Co., Cambridge.

Newton & Co. (Mathematical Apparatus, &c.), 3, Fleet street.

Oliver & Boyd, Edinburgh.

Parkes & Sons (Mathematical Apparatus, &c.), 5, St. Mary's row, Birmingham; and 28, Paternoster row.

Philip & Son, 32, Fleet street.

Reeve, Lovell, 5, Henrietta street, Covent garden.
Reading Reform Association, 9, King's road, Bedford row.
Relfe, Brothers, 150, Aldersgate street.
Religious Tract Society, 56, Paternoster row.
Reynolds, James (Educational Diagrams, &c.), 174, Strand.

Stephenson, the Rev. Nash. Works by.

Walton & Maberly, 29, Upper Gower street; and 27, Ivy lane, Paternoster row.
Weale, J., 59, High Holborn.
Wyand, Son & Co. (Educational Repository), 471, New Oxford street.

CATALOGUE.

CLASS I.

SCHOOL BUILDINGS AND FITTINGS.

SCHOOL BUILDINGS.

Model of the Central School for Boys at the Institution of the British and Foreign School Society, Borough Road, Southwark, $\frac{1}{8}$ scale.
Coloured Print of the Institution, in frame.
(Exhibited by the Society.)

——— of Messrs. Chance's School, Glass-works, Birmingham. Scale ½-inch to the foot. Showing the arrangement and application of the furniture and fittings. Also a portion of the roof, showing the method of preventing echo.
(Exhibited by Messrs. Chance.)

——— of a group of School Buildings suitable for a large rural parish, providing separate accommodation in three school-rooms for 96 boys and 96 girls, four classes in each, and 152 infants. Scale ½-inch to the foot.
(*The Right Honourable Earl Granville.*)

——— of the Homerton College Training Schools. Scale ½-inch to a foot. Made by Mr. James Callow, South Place, Finsbury.

——— Sectional Models of the First, Second, and Third Class-rooms, Royal Naval Hospital, Greenwich, on a scale of 1 in 10, showing their internal fittings and furniture.
(Exhibited by Mr. Edward Hughes.)

——— of Ipstones Schools, Cheadle, Staffordshire. James Stollard, Designer.

——— of Norwich Diocesan Boys' Model School, showing the interior arrangements, constructed by the master (Mr. W. Bellamy). Scale ½-inch to the foot.

——— of the Norfolk and Norwich Model National School for Girls.
(*Rev. A. Bath Power, Principal.*)

——— of a School-house for 120 children (mixed.)
(*Wesleyan Education Committee.*)

——— of School-house, Nova Scotia.

Design for School Buildings, Bromley, Kent.
J. P. St. Aubyn, John Street, Bedford Row.

Perspective View of Colliery School at Elsecar, Yorkshire. (*The Earl Fitz William.*)

Plans of existing School Buildings, selected for exhibition by Her Majesty's Inspectors of Schools, in a portfolio.
(*Committee of Council on Education.*)

Plans of School Houses and Furniture, in a portfolio. (*Wesleyan Education Committee.*)

Royal Naval Lower School, Greenwich. Five Water Colour Drawings, illustrating the interior arrangements of the Class-rooms.
(Exhibited by Mr. Edward Hughes.)

Dr. Arnott's Ventilator.

Model Bell Trap, Patent Rain-Pipe Box Earthenware Pipe, and Patent Tubes for Drains.
W. Austin, Holywell Street, Westminster.

Self-acting Trough for flushing closets, Model of, as used at the old National Schools, Cambridge. Rev. G. Maddison.

SCHOOL FITTINGS.

Class-table for Ladies' Schools, in mahogany, Price 4*l.* 4*s.* With lifting desk-top, 5*l.* 5*s.*
Wyand, Son, & Co.

Desk (School) on a new plan, with platform and seat annexed, capable of being moved and used as a gallery. Recommended by Her Majesty's Inspectors of Schools. 3*s.* 3*d.* per foot, complete. (*Home and Colonial School Society.*)

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(*Presented by E. Enfield, Esq.*)

Desk (Model of). Homerton College Training Schools. Mr. James Callow.

Desk (Improved) for Juvenile Schools.

——— ——— Infant Schools.
(*Wesleyan Education Committee.*)

Desk for Schoolmasters, with Drawers.

——— for Boys, of American birch, with closets for books.

——— ——— of American birch, in groups of three Desks and Forms secured on sleepers.

——— for Girls, ditto, ditto.

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R. Atkins, Norwich.

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——— Ne Plus, 10½ ,, *3s. 9d.*
——— in Cedar, *1s. 10d.*
A. Davis & Co.

School Work-table. Price *52s.*
R. Saxton, Cabinet Maker, York.

Diagram of Iron Standards for Desks and Forms, as supplied by the *National Society*.

Model of a new form of Gallery for Collective Instruction, for Teachers. By Walter M'Leod..
1. The width of each platform is 21 inches, except the last, which is 22 inches.
2. The rise of platforms 1, 2, and 3, is 6 inches each; the others are each 7 inches; the height of the last platform above the floor line is 3 feet 10 inches.
3. The width of each seat is 7 inches, except the last, which is 8 inches.
4. The heights of the seats are as follow:— 1st and 2nd seats, 14 inches each; 3d and 4th seats, 15 inches each; the 5th and 6th seats, 16 inches and the 7th and 8th seats, 17 inches each.

N.B.—These heights given above are for boys from 10 to 14 years of age.
For children from 5 to 10 years of age, the seats should begin with 10 inches and rise to 14 inches.
For still younger children a further reduction will be necessary. The rise of the platforms, too, should be to the following:—1st and 2nd, 5 inches; 3d, 4th, and 5th, 6 inches; the others, 7 inches each in height.
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——— of a Form or Bench for National Schools. Price per foot, *3s.*
(J. H. Smith, Master of the National Schools, St. Peter's, Pimlico.)
——— Form and Desk.
(*Her Majesty's Commissioners for the Exhibition of* 1851).

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(*British and Foreign School Society.*)
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G. Perkins, Kingsbridge, Devon.
——— R. Atkins, Norwich.

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Pen Tray. *2s.* (*Wesleyan Eucation Committee.*) A. Heylin.

Reading Box. 15*s.*, or with Black-board, 38*s.* (*Home and Colonial School Society.*)

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Prepared Black Canvass, 24 inches by 30. *3s. 7d.* (*National Society.*)

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Groombridge & Sons.

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——— for Prints of Manners and Customs, *4s. 6d.*
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95-96	Familiar objects	0	0	9
317	Box of models	1	2	0
148-222	One set of a selection from Dyce's Drawing-book, 15 plates, mounted back and front	0	5	0
285	Diagram of colour (No. 285)	0	0	9
1958	Specimens of the drawing-board, T square, compasses, books on geometry and colour, case of pencils and colour-box awarded to students in parish schools	0	13	6
	Total	3	16	3

The following COLLECTIONS have been for the most part prepared under the Authority of the DEPARTMENT, and are recommended for more extended Instruction.

CLASS I.—*Copies for Outline Drawing.*

Rotation No.	Description of Article.	Size, &c	Retail Price. £	s.	d.	Articles selected, and Amount. £	s.	d.
18-20	One set of the letters A O S, mounted	14 in. × 21 in.	0	3	0			
18-20	The same, unmounted		0	0	9			
21-32	One set of 12 outlines on black and white grounds, mounted on millboard, back and front	10 in. × 16 in. / 8 in. × 10½ in.	0	3	0			
21-32	The same, unmounted		0	1	3			
33-45	Simpson's set of 12 plates of outlines for the black-board, with preface, mounted on canvas	20 in. × 25 in.	0	7	0			
33-45	The same, unmounted		0	3	6			
46-75	The same, cut up and mounted back and front		0	7	0			
598-614	The same, reduced for pencil drawing		0	1	6			
1710-1716	De la Rue's free-hand outline of common things, 48 subjects		0	5	0			
1711-1716	Single packets, eight subjects, each		0	1	0			
76	A set of two sheets of outlines, suggested by the Bishop of St. Asaph, in cover	12½ in. × 9 in.	0	0	6			
77-90	Ditto, cut up and mounted back and front, on boards	various	0	2	3			
93-94	Outlines of familiar objects, two sheets	11¼ in. × 8¼ in.	0	0	3			
95-96	Ditto, cut up and mounted on two boards	9 in. × 6 in.	0	0	9			
101-121	One set of 21 plates of Elementary Practical Geometry, mounted back and front	various	0	15	0			
148-222	Dyce's Elementary Outlines of Ornament, 50 selected plates, one set, mounted back and front	various	0	16	0			
148-222	The same, unmounted, sewed		0	5	0			
148-222	A selection from the same, 15 plates, one set, back and front mounted		0	5	0			
223-234	Weitbricht's Outlines of Ornament, reproduced by Herman, one set, 12 plates, mounted back and front	various	0	5	6			
223-234	The same, unmounted		0	2	0			

CLASS I.—*Copies for Outline Drawing*—(continued).

Rotation No.	Description of Article.	Size, &c.	Retail Price. £ s. d.	Artic select and Amou £ s.
235–254	Morghen's Outlines of the Human Figure, reproduced by Herman, one set, 20 plates, mounted back and front	various	0 10 0	
235–254	The same, unmounted	- - -	0 3 4	
255–258	One set of four plates, outlines of Tarsia, from Gruner, mounted	17½ in. × 22 in. / 8 in. × 18½ in.	0 3 6	
255–258	The same, unmounted	- - -	0 0 7	
259–262	Albertolli's Foliage, one set of four plates, mounted	20 in. × 8 in.	0 3 6	
259–262	The same, unmounted	- - -	0 0 5	
1271	Outline of Trajan Frieze, mounted	- - -	0 1 0	
1272–1298	Wallis's Drawing-book, mounted	- - -	0 7 0	
1272	The same, unmounted	- - -	0 3 6	
1683–1691	Cotman's pencil Landscapes	- - -	0 15 0	
1701–1708	Outline drawing of flowers, eight sheets, mounted	- - -	0 3 6	
1701–1708	The same, unmounted, eight sheets	- - -	0 0 8	

CLASS II.—*Copies for Shaded Drawing.*

	Seven plates of ornament shaded, &c.:—		£ s. d.	£ s.
288	Antique Scroll, mounted	11½ in. × 12½ in.	0 0 9	
288	The same, unmounted	- - -	0 0 3	
289	Greek Honeysuckle, mounted	11 in. × 14½ in.	0 0 8	
289	The same, unmounted	- - -	0 0 3	
290	Frieze from Ghiberti Gates, mounted	12½ in. × 19 in.	0 1 0	
290	The same, unmounted	- - -	0 0 4	
291	Renaissance Rosette, mounted	10 in. × 14 in.	0 0 9	
291	The same, unmounted	- - -	0 0 3	
292	Portion of an antique panel, mounted	11½ in. × 11½ in.	0 0 10	
292	The same, unmounted	- - -	0 0 6	
293	Gothic Finial, mounted	12½ in. × 19 in.	0 0 10	
293	The same, unmounted	- - -	0 0 4	
619	Husk, mounted	13½ in. × 11 in.	0 0 10	
619	The same, unmounted	- - -	0 0 6	
294	Gruner's shaded examples of Biga, or Ancient Car, mounted, &c.	17 in. × 22½ in.	0 4 0	
294	The same, unmounted	- - -	0 3 0	
1501	McCallum's Studies of Trees, Ash, mounted	24 in. × 18½ in.	0 2 8	
1501	The same, unmounted	- - -	0 1 6	
1502	McCallum's Studies of Trees, Horse Chestnut, mounted	24 in. × 18½ in.	0 2 8	
1502	The same, unmounted	- - -	0 1 6	
1719–1724	Cotman's Landscapes, tinted in Sepia, &c.	- - -	1 0 0	

CLASS III.—*Architectural and Mechanical Drawing, &c.*

	MACHINE DRAWING.		£ s. d.	£ s
969–1030	Engineer and Machinist's Drawing-book, 71 plates published, mounted back and front on millboard	15 in. × 12 in.	3 0 0	
952–968	The same, sewed in Numbers, at 2s. per Number	- - -	1 12 0	
402–451	Tripon—"Etudes Elémentaires de Lavis," being 50 shaded copies of Machine Drawing, mounted on millboard	20 in. × 14 in.	3 15 0	
402–451	The same, unmounted	- - -	2 10 0	
	PRACTICAL ARCHITECTURE.			
	Plates extracted from the Course adopted at the Royal Eng. Establishment at Chatham, by permission of the Master-General of the Ordnance, in sheets, viz.:—			
263–265	Brickwork, three plates, mounted	28 in. × 20½ in.	0 9 0	
263–265	The same, unmounted	- - -	0 4 6	

CLASS III.—*Architectural and Mechanical Drawing, &c.*—(continued).

Rotation No.	Description of Article.	Size, &c.	Retail Price. £ s. d.	Articles selected, and Amount. £ s. d.
266, 267	Masons' Work, two plates, mounted	20 in. × 14 in. / 28 in. × 20½ in.	0 5 0	
266, 267	The same, unmounted	-	0 2 6	
268	Carpenters' Work, one plate, mounted	28 in. × 20½ in.	0 3 2	
268	The same, unmounted	-	0 1 8	
269	Joiners' Work, one plate, mounted	28 in. × 20½ in.	0 3 0	
269	The same, unmounted	-	0 1 6	
270	Staircases, mounted	28 in. × 20½ in.	0 3 0	
270	The same, unmounted	-	0 1 6	
271	Boarded Floors, mounted	20 in. × 14 in.	0 2 0	
271	The same, unmounted	-	0 0 10	
272	Common and Trussed Partitions, mounted	28 in. × 20½ in.	0 3 0	
272	The same, unmounted	-	0 1 6	
273–277	Roofs, mounted	28 in. × 20½ in. / 20 in. × 14 in.	0 13 0	
273–277	The same, unmounted	-	0 6 3	
278	Head and Shoe for conveying rain from roofs, mounted	20 in. × 14 in.	0 2 6	
278	The same, unmounted	-	0 0 9	
	NAVAL ARCHITECTURE.			
	Five plates extracted from Knowles' Work on Naval Architecture, being the sheer draught, half-breadth, and body plans:—			
580	Of a merchant ship 1,257 tons burthen	46 in. × 15 in.	1 0 0	
581	Of a collier brig	31 in. × 13 in.		
582	Of a Virginia built privateer	31 in. × 11 in.		
583	Of a Bermudian schooner	23 in. × 10 in.		
584, 585	Of a man-of-war's launch, pinnace, cutter, and yawl, mounted on millboard and canvas	22 in. × 12 in. / 21 in. × 11 in.		
580–585	The same, unmounted, the set	-	0 14 0	
1773	Knowles' entire work, including the letter-press and an Atlas of 39 plates, half bound	-	6 6 0	

CLASS IV.—*Elementary Works for teaching Colour.*

			£ s. d.	£ s. d.
285	A small diagram of colour, mounted	14 in. × 21 in.	0 1 6	
285	The same, unmounted	-	0 0 9	
286	A large diagram of colour, mounted	18 in. × 48 in.	0 6 0	
287	Redgrave's Manual and Catechism on Colour (2nd edition)	36 pages	0 0 9	

CLASS V.—*Coloured Examples.*

	Eight coloured examples of Flowers, mounted, enamelled,—			
300	Pelargonium, mounted	12½ in. × 16 in.	0 3 9	
300	The same, unmounted	-	0 2 9	
301	Petunia, mounted	12½ in. × 16 in.	0 3 9	
301	The same, unmounted	-	0 2 9	
302	Nasturtium, mounted	12½ in. × 16 in.	0 3 9	
302	The same, unmounted	-	0 2 9	
303	Camellia, mounted	12½ in. × 16 in.	0 3 9	
303	The same, unmounted	-	0 2 9	
304	Wall Flower, mounted	12½ in. × 16 in.	0 2 6	
304	The same, unmounted	-	0 1 6	
305	Althœa Frutex, mounted	12½ in. × 16 in.	0 2 6	
305	The same, unmounted	-	0 1 6	
306	Torrenia Asiatica, mounted	12½ in. × 16 in.	0 3 9	
306	The same, unmounted	-	0 2 9	
1546	Oleander, mounted	-	0 3 9	
1546	The same, unmounted	-	0 2 9	

CLASS V.—*Coloured Examples*—(continued).

Rotation No.	Description of Article.	Size, &c.	Retail Price.	Articles selected and Amount
			£ s. d.	£ s.
1534–1539	King's flowers in flat tints, six sheets, unmounted	17½ in. × 13½ in.	1 1 0	
586–597	Robinson's Collection of Examples of coloured Ornament of various styles to serve as first exercises in Flat Tinting, 12 plates, mounted	12 in. × 10 in.	0 12 6	
586–597	The same, unmounted		0 8 0	
1649	Group of Camellias, after Robinson		0 12 0	
618–618A	Two plates of Elementary Design		0 1 0	
1727–1728	Two plates of ornament, from Persian MSS.			
1729–1731	Three plates of Indian arms			
1732	A design for an Axminster carpet, painted in colors			
	Pyne's coloured landscapes, painted by Vincent Brookes			

CLASS VI.—*Solid Models.*

			£ s. d.	£ s.
317	A box of models for Parochial Schools		1 2 0	
318	A stand with a universal joint, to show the solid models, &c.		1 8 6	
319–328	One wire quadrangle, with a circle and cross within it, and one straight wire. One solid cube. One skeleton wire cube. One sphere. One cone. One cylinder. One hexagonal prism		2 2 0	
1612	Skeleton cube in wood		0 3 6	
2000–2006	Mr. Binn's models for illustrating the elementary principles of orthographic projection as applied to mechanical drawing, in box		1 10 0	
	Mr. Binn's models for illustrating the principles of the penetration of solids:—			
2007	The penetration of a cylinder by a cylinder		0 2 0	
2008	" " " by a cone		0 2 0	
2009	" " of a cone by a cylinder		0 2 0	
2010	" " " by a cone		0 2 6	

CLASS VII.—*Miscellaneous Solid Forms.*

			£ s. d.	£ s.
	Three objects of *form* in Pottery (Minton's),—			
332	Indian Jar		0 4 9	
333	Celadon Jar		0 3 6	
334	Bottle		0 4 9	
335–338 & 1541	Five selected vases in Majolica Ware (Minton's)		0 8 0 0 8 0 0 8 0 0 8 0 0 8 0	
341–343	Three selected vases in Earthenware (Wedgwood's)		0 4 6 0 4 6 0 5 9	
	Three large Shells, such as,—			
350	Crown Melon		0 3 6	
351	Bull Mouth Helmet		0 1 6	
352	Green Snail		0 1 3	
	Three other selected Shells, such as,—			
353	Haliotis Virginea		0 1 0	
354	Zebra Snail		0 0 9	
355	Lightning Voluta		0 0 9	
	Three selected stuffed Birds, as example of colour, such as,—			
356	Crimson Tanager		0 6 6	
357	Orange Oriole		0 6 6	
358	Paradise Finch		0 6 6	
617	Human Skeleton, with stand, curtain rods, and curtain		11 11 0	

Class VIII.—*Books, &c.*

Rotation No.	Description of Article.	Size, &c.	Retail Price.	Articles selected, and Amount.
			£ s. d.	£ s. d.
359	Robinson's Manual for teaching Elementary Drawing	- - -	0 0 8	
99	Burchett's Practical Geometry	- - -	0 5 0	
100	Burchett's Perspective	- - -	0 7 0	
360	Burchett's Definitions of Geometry	- - -	0 0 5	
361	Catalogues of the articles in the Museum at Marlborough House, with Appendix, containing a prospectus of the Department	- - -	0 0 6	
362	Instruction in Art	- - -	0 0 2	
363	Addresses of the Superintendents on the Facilities afforded by the Department for acquiring Art Education	- - -	0 1 6	
364	Redgrave's Report on "Design" of Articles in the Great Exhibition of 1851	- - -	0 2 8	
365	Redgrave, on the Necessity of Principles in teaching Design	- - -	0 0 6	
366	Principles of Decorative Art	- - -	0 1 0	
367–371	Five Placards of the Principles of Decorative Art	- - -	0 0 10	
372	Gruner's Specimens of Ornamental Art	- - -	12 12 0	
373	Owen Jones's Propositions on Decorative Art	- - -	0 0 2	
316	Text to Dyce's Drawing-book	- - -	0 0 6	
91	Lindley's Symmetry of Vegetation	- - -	0 1 0	
92	Robinson's Lectures on the Museum	- - -	0 0 6	
1270	Wornum's Catalogue of Casts, stitched	- - -	0 1 0	
1270a	Ditto ditto, bound in Cloth	- - -	0 1 6	

The following Materials, Examples, and Publications, have not been prepared at the suggestion of the Department, but will be found useful in Schools.

Materials.

			£ s. d.	£ s. d.
1	Black canvas strained on frame	22 in. × 17 in.	0 1 8	
2	One dozen holders for chalk	6 inches	0 2 4	
3	Rigg's large compasses with chalk holder for black-board use	14 inches	0 3 6	
4	White chalk, gross boxes	- - -	0 1 6	
6	Slip	3 feet		
7,8	Two set squares	18 in. & 12 in.	0 5 0	
9	T square	2 feet 6 inches.		
10	Miller's colour box, containing 10 colours and 3 brushes	- - -	0 1 2	
12	Miller's ditto ditto polished box, containing 8 colours, a tube of white, and 3 brushes	8 in. × 2½ in.	0 2 8	
13	Reeve's ditto ditto, superior ditto, containing 8 colours, a tube of white, and 3 brushes	6½ in. × 2½ in.	0 2 8	
1692	Roberson's ditto ditto, containing 10 colours, stick of Indian ink, slab, and 7 brushes (prize box)	- - -	0 13 6	
1693	Newman's ditto ditto (prize box)	- - -	0 13 6	
1956	Newman's ditto ditto, containing 3 colours, Indian ink, slab, and 3 brushes (prize box)	- - -	0 2 9	
1957	Reeve's ditto ditto, (prize box)	- - -	0 2 9	
16	Elliott's case of superior instruments, containing one pair of 6 in. compasses, with pen and pencil legs	6½ in. × 2 in.	0 4 8	
17	Elliott's ditto, larger box, containing one pair 6 in. compasses, pencil leg, bow pen and scale	6½ in. × 2½ in.	0 6 9	
1648	Elliott's prize case of instruments	- - -	1 7 0	
1694	Elliott's prize case of instruments, smaller size	- - -	0 14 0	
1676	Elliott's drawing instruments for schools	- - -	0 4 0	
331	Elementary series (first course) of the "Folding Drawing Models," by Benjamin R. Green and James Fahey, consisting of four Models, viz.—1. Cube and Lodge—2. Cottage—3 Steps—4. Bridge—in box complete	- - -	0 15 0	

Materials—(continued).

Rotation No.	Description of Article.	Size, &c.	Retail Price. £ s. d.	Article selected and Amount £ s.
1556	Solomon's Small case, coutaining compass, with pen and pencil leg	3¾ in. × 1½ in.	0 3 11	
1557	Ditto, ditto, and ruling pen	5¼ in. × 2½ in.	0 2 9	
1558	Ditto, ditto, how compass, pen, with moveable pen and pencil leg	5¼ in. × 2½ in.	0 3 2	
1555	Park's small compasses		0 1 0	
1671	Houghton's stumps for chalk Drawing. White paper, in sets of four		0 1 0	
1672	Ditto ditto Blotting paper		0 1 4	
1673	Ditto ditto Leather ditto		0 1 8	
1695	Box of 3 pencils, Indian rubber, and 4 drawing pins		0 1 0	
1954	Box of 7 pencils and Indian rubber		0 2 0	
1696–1699	Drawing-board, Imperial size, T square, 2 set squares, and 1 doz. drawing pins (prize set)		0 19 0	
1700	Drawing-board, 12 × 16		0 2 0	
1955	T square for same		0 1 4	
2011	Case of implements and materials for chalk drawing		0 14 0	

Examples.

			£ s. d.	£ s.
314	Landscape, Birdsnest (after Hunt)	25½ in. × 18½ in.	0 10 6	
620	Ditto Village Fisherman	29 in. × 21½ in.	1 1 0	
1269	Ditto Como	29 in. × 21½ in.	0 15 0	
1547	Ditto Frankfort (after W. Callow)	29 in. × 21½ in.	0 15 0	
1651	Ditto Downe Castle (after J. D. Harding)		0 7 6	
1650	Group of Roses (after Hunt)		0 10 6	
1680	Landscape, Isola Lecchi, Lago di guarda, by Leitch		1 1 0	
1681	Landscape, a Street in Verona (Bentley)	12 in. × 15 in.	0 15 0	
329–330	Drawing models for beginners, with a Treatise on Drawing		1 16 0	
1554	The Bones, indicated within the outline of the Discobolus of Naucides		0 5 0	
735–740	Bougerie's Anatomical Subjects, 6 plates		3 12 0	
1559–1608	Ornamental coloured Designs, in 10 parts, (Myers & Co.)	(at per part)	0 1 6	
1726	Cochem, on the Moselle (Richardson)		1 1 0	

PUBLICATIONS.

Rotation No.	——	Retail Price. £ s. d.	Article selected and Amount £ s.
374	Diagrams and Instructions to be used in teaching Elementary Linear Drawing, by the Rev. C. Richson, M.A.	0 1 3	
375–377B	Elementary Freehand Copies. Rev. C. Richson, M.A., parts 1 to 5, each	0 0 6	
378	Linear Drawing Copies for the earliest Instruction, comprising upwards of 200 subjects, on 24 sheets, mounted on thick pasteboard, in a portfolio	0 5 6	
379	Easy Drawing Copies for Beginners	0 6 6	
380	Drawing for Young Children	0 3 6	
381	Rudimentary Art—Instruction for Artisans and others, and for Schools, prepared at the request of the Society of Arts, Manufactures, and Commerce. Outline from Outline, or from the Flat, by John Bell, Sculptor. Part 1.	0 3 0	
381A	Ditto. Part 2.	0 4 0	
382	Dicksee's Familiar Freehand	0 2 6	
383	Directions for introducing Elementary Drawing in Schools and among Workmen. Published at the request of the Society of Arts	0 4 6	

Publications—(continued).

Rotation No.	——	Retail Price.	Articles selected, and Amounts.
		£ s. d.	£ s. d.
384	An Alphabet of Colour, reduced from the Works of Field, Hay, and Chevreuil	0 3 0	
385	Grant's Practical Geometry for Schools and Workmen. In paper cover	0 1 0	
386	Grant's ditto ditto. In cloth	0 1 6	
387	Cassell's Edition of Euclid. Stitched	0 1 0	
388	Ditto ditto Cloth	0 1 6	
389	Byrne's Euclid, printed in Colours. published at	1 1 0	
390	Minifie's Text Book of Geometrical Drawing	0 10 0	
391	Clerget's "Collection Portative d'Ornements de la Renaissance," 6 first series, in covers	0 11 0	
392	Hereford, Dean of. "Hints on an Improved and Self-paying System of National Education"	0 0 8	
393	Ditto, ditto, on "Schools and other similar institutions for the Industrious Classes"	0 0 4	
615	Gruner's Fresco Decorations of Italy	5 5 0	
616	Lindley's School Botany	0 5 6	
1548-1550	Green and Fahey's Grammar of Form. Parts 1, 2, & 3	0 7 6	
1707	Owen Jones' Grammar of Ornament	17 0 0	
1610	Lessons on Art, by J. D. Harding	0 15 0	
1611	Guide and Companion to the Lessons on Art, by J. D. Harding	0 12 6	
1632	Pease's Geometry	0 2 0	
1633	Jewitt's Perspective	0 1 6	
1717	Fan's Anatomy, translated by Knox, 28 plates, plain	1 4 0	
1718	Ditto ditto coloured	2 2 0	
1637	Lund's Geometry and Mensuration. Part 1, Geometry as a Science	0 1 6	
1638	Ditto. Part 2, Geometry as an Art	0 2 0	
1639	Manual of Gothic Stone Carving	0 1 6	
1639	Manual of Gothic Mouldings	0 1 6	
1399	Manual of Surface Ornament	0 1 6	
1662	Joseph Bonomi's Proportions of the Human Figure	0 1 0	
1675	Examples of Ornament in every style	2 2 0	
1677	The Almanack of Science and Art for 1856	0 2 6	
1678	Butler William's Manual for Teaching Model Drawing from Solid Forms	0 17 0	
1679	Ditto Instructions in Drawing from Models	0 3 3	
1725	Wornum's Analysis of Ornament	0 8 0	

Casts of Ornament and the Figure, recommended for the Use of a Parochial School.

No.	——	Retail Price.	Articles selected, and Amounts.
		£ s. d.	£ s. d.
	Ornament.		
347	Section of Frieze from the Erectheum, Athens — Greek.	0 6 0	
348	Small Acanthus scroll — Roman.	0 6 6	
344	Rosette, from the Capitol, Rome — Roman.	0 4 0	
345	Another, ditto — Roman.	0 4 0	
346	Rosette from the cloisters of Santa Maria del Popolo, Rome — Roman.	0 3 0	
349	Pomegranate portion of the frieze of the Ghiberti Gat. s, Florence, 1424-52 — Renaissance.	0 6 6	
	The Figure.		
1617	Bust of Diana robing	0 10 6	
456	Bust of the young Augustus	0 6 0	
	£	2 6 6	

Casts of Ornament and the Figure, recommended for a District Elementa School.

No.	—		Retail Price. £	s.	d.	Arti selec an Amo £	s
	Including those for a parochial school		2	6	6		
	Ornament.						
495	Stele top, from the British Museum	Greek.	0	4	0		
474	Florentine panel, with swan	Roman.	1	5	0		
1631	Nest of scroll of pilaster, from Villa Medici	Roman.	0	15	0		
471	Large scroll, from Trajan Forum	Roman.	4	0	0		
490	Small acanthus leaf, Temple of Jupiter Stator	Roman.	0	6	0		
494 A	Small rosette, from the tomb of the Scipios	Roman.	0	1	6		
494 B	Another "	Roman.	0	1	6		
1542 E	Pilaster, from tomb of Louis XII.	Renaissance	0	5	0		
1543 E	Another " "	Renaissance	0	5	0		
476 A	Another " "	Renaissance	0	5	0		
476 B	Another " "	Renaissance	0	5	0		
483	Egg-plant and pomegranate, Ghiberti Gates	Renaissance	0	15	0		
475	Pilaster, from Florence (Cinque-cento), formerly called from "Santa Maria del Popolo"	Renaissance	1	1	0		
489	Acanthus leaf, from St. Eustache, Paris	Renaissance	0	4	0		
478	Pilaster, from the Madeleine, Paris (from the bronze of Triquetti, c. 1840)	Modern Renaissance.	0	12	0		
478	A section of the above	"	0	8	0		
487	Finial, from Lincoln	Gothic.	0	3	6		
488	Capital, from Temple Church	Gothic.	0	7	0		
1640	Capital, from Stone Church, Kent	Gothic.	0	7	6		
	The Figure.						
452	Anatomical figure, by Houdon		5	10	0		
1554	Discobolus of Naucydes, Naples		5	0	0		
455	Torso of Venus, British Museum		0	8	0		
459	Bronze Hercules		0	10	0		
457	Bust of Diomede		0	10	0		
463	Bust of Clytie, British Museum		0	10	0		
498	Dancing Girl, with wreath		0	14	0		
497 A	Portion of Panathenaic frieze, from the Parthenon		0	18	0		
464 C	Hand, with scroll (antique)		0	2	0		
464 D	" with stick "		0	1	6		
464 E	" female, from nature		0	1	0		
464 F	" anatomical		0	1	0		
464 G	Foot of the Laocoon (right)		0	1	6		
464 I	" of the Venus de Medici (right and left)		0	2	0		
464 K	" from the antique (male)		0	1	6		
464 L	" anatomical		0	1	6		
462	Mask, child of Niobe		0	3	0		
462 A	Another "		0	3	0		
			28	10	6		

Collection of Casts of Ornament and the Figure, for a Central School of A

			£	s.	d.	£	s.
	Including the two former collections		28	10	6		
	Ornament.						
492 A	Enriched moulding (Echinus, from the Erectheum)	Greek.	0	5	0		
1634	Lysicrates scroll (Athens)	"	0	4	0		
495 A	Stele top, from British Museum	"	0	4	0		
472	Large frieze, Trajan Forum	Roman.	4	0	0		
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2	1	5 8	0 10 0
3	2	1 6	0 10 0
4	3	1 6	0 15 0
5	4	1 4	0 12 6
6	4	5 8	0 12 6
7	5	9 12	0 15 0
8	5	13 14	0 10 0
9	6	15 18	0 15 0
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Salles d'Asile, Notions Industrielles à l'Usage des. Industrial Hints for Homes of Refuge. By M. Boucard. 12mo. Hachette, Paris, 1848.

Salles d'Asile. Conseils sur la Direction des. Advice respecting the Direction of Homes of Refuge. By Mlle. Marie Carpentier. 12mo. Hachette, Paris, 1847.

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ink. 1, Gneiss; 2, Mica schist; 3, Primary limestone; 4, Quartz rock; 5, Schistose rock.
ate colour. 6, Cumbrian slates; 7, Cambrian slate; 8, Festiniog and Bangor slate; 9, Bala limestone; 10, Coniston limestone; 11, Llandeilo flags; 12, Caradoc limestone; 13, Ludlow rocks.
ark Red. 14, Devonian, or old red sandstone.
lue. 15, Mountain limestone; 16, Millstone grit; 17, Coal formation; 18, Magnesian limestone.
ale Red. 19, New Red sandstone.
ellow. 20, Lias; 21, (in some copies misprinted 12), Inferior oolite; 22, Stonefield slate; 23, Great oolite; 24, Coral rag and Oxford clay; 25, Portland stone.
hite. 26, Wealden and Purbeck beds; 27, Chalk, green-sand, etc.
range. 28, London clay: 29, Bagshot sand; 30, Freshwater sand; 31, Craig; 32, Diluvium; 33, Alluvium.
he Order of the various Systems and Strata. A, Gneiss; B, Mica and talc schists; C, Clayslates; D, Grauwacké and sandy slates; E, Silurian limestone; F, Old red sandstone; G, Mountain limestone; H, Coal formation; I, Magnesian limestone; K, New red sandstone; L, Saliferous marls and shell limestone; M, Lias limestone and shells; N, Oolite limestone; O, Chalk beds and green-sand; P, Blue and plastic clay; Q. Estuary marls; R, Sandstone and calcareous grits; S, Diluvial clay and boulders; T, Alluvial clay, sand, and gravel; V, Superficial soil.
ction of the London Basin; with Artesian well.

RGANIC REMAINS OF THE FOSSILIFEROUS STRATA.

ssils of the Clayslate, Grauwacké and Silurian Systems. A, Cyathophylium Cyathus; B, Heliopora porosa; C, Terebratula; D, Euomphalus rugosus. Trilobites; E, Calymene Blumenbachii, side view, while rolled up; I, The same, unrolled: H, Asaphus tuberculatus.
ssils of the Devonian, or Old Red Sandstone, A, Cephalaspis; B, Pterichthys; C, Osteolepis D, Dipterus.
ssils of the Carboniferous System. A, Encrinites moniliformis, or Necklace lily coral; B, Encrinital limestone. Ferns: C, Asterophyllites Parkinsoni; D, Pecopteris Mantelli; E, Sphenopteris linearis; G, Sphenopteris affinis.
ssils of the New Red (Triassic) System. The Labyrinthodon Salamandroides; A, Section of tooth of ditto, the peculiar structure of which has conferred the name Labyrinhodon upon this fossil Batrachian. Ichnoites—footprints of the animal—are represented on the sandstone.

Geology, Diagrams on.—*cont.*

10. Fossil Flora of the Oolite and immediately Antecedent Systems. — *(Vide Chambers' Geology*, p. 140.)

11. Fossil Shells and Fruit from the Lias, Oolite, and Wealden. A, Ammonites obtusus; B, Section of ditto, showing interior chambers and siphuncles; C, Ammonites nodosus; D, Cidaris intermedia; H, Cidaris, with its spines, complete; E, Trigonia costata, Fruit from the Wealden; I, Seed-vessel or nut; K, Cone from the Isle of Purbeck; L, Cone from Kent; M, Cone from Pippingford, Sussex.

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Sulphur, roll, 4 ozs., 6*d.*
Sulphur, sublimed, 2 ozs., 4*d.*
Tin foil, 2 ozs., 8*d.*
Zinc cuttings, ½ lb., 6*d.*
Naphtha for burning, 1 pint, 2*s.* 3*d.*

Amount of Chemical Apparatus and Preparations, List 1, 3*l.* 2*s.* 8*d.*

J. J. Griffin.

CHEMICAL APPARATUS.

List II.

Tate's pneumatic trough and hydraulic blowpipe for use in glass-blowing, combined. The trough 16 in. by 12 in., with a moveable shelf for collecting gas, and a cover: japanned tin-plate, 12*s.* 6*d.*
Griffin's stoneware pneumatic trough, 11 in. diameter, with beehive shelf, 2*s.* 4*d.*
Glass-blower's lamp. Danger's pattern, 3*s.* 6*d.*
Iron-rod in handle for working glass. 6*d.*
Gasholder, 18 in. high, 10½ in. diameter, contents 1,500 cubic in., with stopcock, large funnel on an 18-in. tube, 3 ft. of vulcanised tubing to deliver the gas, wide-gauge pipe; graduated into spaces of 50 cubic in. There is an opening in the side of the gasholder near the bottom, to be used when the gas-holder is employed as an aspirator or for hydraulic experiments, 1*l.* 6*s.*
Stopcock to use with the gasholder for hydraulic experiments, 3*s.*
Three feet vulcanised rubber tubing ¼ in. bore. 3*s.*
,, ,, ,, ½ in. bore, 2*s.* 6*d.*
Fill the gasholder with water and put it on a high table. Fix the tall funnel and fill it also with water. Connect the stopcock 231 with the two tubes 232, joining these in the middle by inserting a small piece of glass tube: at the end of the tube fix a fountain-jet, namely, a glass jet or that belonging to the air-pump, and place the jet near the ground in a vertical position. If the stopcocks are now opened, a fountain will be produced.
Two stopcocks, double male screws, 5*s.*
One stopcock, male and female, 2*s.* 6*d.*
One connector, double male, 1*s.*
One connector, double female, 1*s.*
One connector, male and female, 1*s.*
Set of six stoneware trays for gas jars, 1*s.* 2*d.*
Gas jar, 12 in. long, 2 in. diameter, 1*s.*

Chemical Apparatus—*cont.* (J. J. Griffin.)

Gas jar, 12 in. by 2 in., graduated into 30 cubic inches, 2*s.* 6*d.*

Gas receiver or deflagrating jar, with wide mouth and glass stopper, 9 in. high by 5 in. diameter, 3*s.* 6*d.*

Gas receiver similar to the last, 11 in. high and 6 in. diameter, 4*s.*

Three wide-mouthed stoppered quart-bottles for collecting chlorine gas, &c. 3*s.*

Large globe for burning phosphorous in oxygen gas, 3*s.*

Metal cup on iron foot to contain the phosphorus for the same experiment, 1*s.* 3*d.*

Flat earthenware pan 12 in. diameter, for use in the same experiment, 1*s.* 4*d.*

Two brass deflagrating spoons, with brass flanges for adjusting the length of the spoon to the receiver it is to be used with, 2*s.* 6*d.*

Hank of iron wire for burning in oxygen gas, 6*d.*

Tall cylindrical receiver with brass cap on the neck, and female screw, 15 in. high by 5 in. diameter, 5*s.*

Glass globe with cap and female screw. By means of the stopcocks and connector No. 233 and 236, the globe can be connected with the receiver No. 249, for the transfer of gases, &c., 3*s.* 6*d.*

Gas burner, for use in places where common gas can be obtained for heating. Brass cylinder, gauze top, iron foot, with an arrangement for blowpipe experiments, 6*s.* 6*d.*

Blowpipe jet for directing oxygen gas from the bag, 256, upon burning metals, &c., 1*s.* 4*d.*

Blowpipe apparatus. The set in a box, 16*s.* 6*d.*:—

a Blowpipe, japanned tin with brass nozzle, 8*d.*
b Blowpipe lamp on wooden support, 1*s.* 8*d.*
c Tongs for trimming the lamp, 6*d.*
d Two platinum wires for supporting assays, 4*d.*
e Two slips of platinum foil, 1*s.*
f Piece of copper-wire for testing for chlorine, 2*d.*
g Tongs with platinum points, 3*s.* 6*d.*
h Bottle of borax, 4*d.*
k Bottle of microcosmic salt, 4*d.*
l Bottle of carbonate of soda, 4*d.*
m Bottle of solution of cobalt, 1*s.*
n Albata spatula with spoon end, 3*d.*
o Two porcelain blowpipe crucibles, 6*d.*
p Three dozen charcoal supports, 4*d.*
q Two wire handles for the crucibles, 1*d.*
r Blowpipe hammer, 1*s.* 2*d.*
s Blowpipe anvil, 1*s.* 4*d.*
t Pestle and mortar, 6*d.*
u One dozen hard glass tubes, 6 in. long, open at both ends, 6*d.*
v One dozen hard glass tubes closed at one end, 6*d.*

Box to hold blowpipe apparatus, 1*s.* 6*d.*

Balloon, 9 in. diameter, to ascend with hydrogen gas or dry coal gas, 1*s.* 3*d.*

Large bladder, with wooden mouthpiece; for use in inhaling nitrous oxide gas. 2*s.*

Gas-bag of Macintosh's waterproof cloth, with brass ferule and female screw to fit the stop-cock, No. 233, 6*s.* 6*d.*

Chemical Apparatus—*cont.* (J. J. Griffin.)

Brass tobacco-pipe, for making hydrogen gas bubbles; to be used with the gas-bag, No. 256, 2*s.*

Hydrogen gas bottle, pint size, with 24-inch funnel, with long delivery tube, and flexible connector, 2*s.* 6*d.*

Hard Bohemian glass tube retort, for preparing oxygen gas, with large delivery tube, 1*s.*

Green glass oxygen gas retort, of larger size, for use in filling the gasholder, 2*s.*

Gas bottle for preparing carbonic acid, sulphuretted hydrogen, and other gases that do not require heat, 1*s.* 8*d.*

Bottle for preparing gases that require heat, 16-ounce flask, with long delivery tube. 1*s.* 6*d.*

Support for the oxygen tube retort while being heated, 1*s.* 3*d.*

Crook of tin, adapted to that support, and intended to hold short wide tubes for deflagrations in fused nitre, &c., as described in Griffin's "Chemical Recreations," 2*d.*

Gas condenser, or bent glass tube, substitute for Woulff's apparatus in the distillation of small quantities of liquids, 1*s.* 3*d.*

Glass retorts, plain, 1 of each size, 5, 10, 20, and 40 ounces capacity, 2*s.* 1*d.*

Glass retorts, stoppered, 1 of each size, 10 and 20 ounces capacity, 2*s.* 8*d.*

Globular receivers, plain, 1 of each size, 8, 16, and 24 ounces capacity, 1*s.* 3*d.*

Adapters to connect retorts with receivers, 8 ounces and 12 ounces, 1*s.* 2*d.*

Two glass funnels for filtration, 4 in. diam., 1*s.* 4*d.*
" " " 3 " 6*d.*
" " " 2 " 4*d.*

Circular filtering papers, cut to suit the different sizes of funnels, in japanned tin boxes:—
100 filters for the 4-in. funnel, 1*s.*, box, 1*s.*
" " 3-in. " 9*d.* } box 9*d.*
" " 2-in. " 5*d.* } 1*s.* 11*d.*

Funnel holder, black wood, with moveable arm, 1*s.* 2*d.*

Argand oil lamp, japanned tin plate, with copper chimney, 6*s.* 6*d.*

Griffin's lamp furnace, consisting of 19 articles. viz.:—Cylinder with air holes, water bath, glass spirit lamp, evaporating basin, oil lamp, dome, for flasks, 4 extra cylinders, dome for retorts sand bath, support for tubes, pan (9 in. diam.), trellis top, pair of tops with holes, pair of hot plates, 8*s.*

Berlin porcelain evaporating basins, 1 of each size, 2½, 3½, 4, 4½, 7½, and 8½ in. diameter, 6*s.*

Two Berlin porcelain basins, 2 in., with handle, 6*d.*

Two dozen bottles, with narrow mouths, for test solutions, 6 ounce, with glass stoppers, 8*s.*

Six German test tubes, 5 in. by ⅝ in., 9*d.*
" " 6 in. by 1 in., 1*s.*
" " 3 in. by 1 in., 9*d.*

Six conical test glasses, 1 ounce size, on foot, with spout, 1*s.* 6*d.*

Six cylindrical test glasses, 8 ounces size, on foot, 1*s.* 9*d.*

Brush for cleaning test tubes, 3*d.*

Wire clip, with handle, for holding hot test tubes, 5*d.*

Two dozen glass stirrers, assorted, viz:—twelve 3-in., six 6-in., three 9-in., three 12-in., 1*s.*

Chemical Apparatus—*cont.* (J. J. Griffin.)

Six Bohemian watch glasses for evaporations, 9*d.*

Vulcanized india-rubber tube, for connectors, 1 ft. each, of ⅛, ¼, and ½-in. bore, 2*s.* 11*d.*

Set of chemical labels, small size, on a sheet. 4*d.*

Another set large size, in a book, 1*s.*

De la Rue's series of chemical labels, in a book, 6*d.*

German glass flasks, 1 of each size, 8, 16, 20, and 32 ounces capacity, 2*s.* 6*d.*

Set of 6 Bohemian beaked tumblers for solutions, Griffin's pattern, best quality, 3*s.* 6*d.*

Graduated measure, 10 ounces, 1*s.* 8*d.*

Dropping tube, a pipette with bulb, 4*d.*

Two straight pipettes, for applying acids in drops, 6*d.*

Glass jar, on foot, with flanged mouth:—
8 in. high, 2 in. diameter, 9*d.*
12 in. high, 2 in. diameter, 1*s.*
15 in. high, 3 in. diameter, 2*s.*
10 in. high, 1½ in. diameter, 9*d.*
12 in. high, 1¾ in. diameter, 9*d.*
16 in. high, 1¾ in. diameter, 1*s.* 3*d.*

Two small thin porcelain cups, in which to ignite or fuse substances over the spirit lamp, 4*d.*

Retort stand, cast-iron foot, stout iron rod, two brass rings, and one iron triangle, 3*s.*

Small stand for test tubes, 6 holes, 4*d.*

Larger test tube stand, 8 holes, and 8 wooden pegs, 1*s.* 1*d.*

Tate's apparatus for burning oxyhydrogen gas, consisting of a water cistern with a gas-pipe leading from the gas-holder containing the mixed gases, with a jet plugged with discs of wire gauze of $\frac{1}{120}$ to the inch, and a cork safety valve to render any possible explosion harmless, 7*s.*

Apparatus to collect the water produced when hydrogen gas is burnt in common air, as described in Griffin's "Chemical Recreations," 3*s.*

Apparatus to show the presence of carbonic acid in air expired from the lungs, consisting of a pint Woulff's bottle, with two bent tubes. When it is to be used it must be half filled with clear lime water. If air is *sucked* through the short tube, no change is produced. If air is *blown* through the long tube, the lime-water becomes turbid, in consequence of the deposition of carbonate of lime. 1*s.* 6*d.*

Apparatus to collect the carbonic acid produced by the flame of a spirit lamp or candle, as described in Griffin's "Chemical Recreations," 2*s.*

Aspirator, or water-bottle, to be used with the apparatus for collecting gases, or wherever gas is to be drawn through a liquid, or when a current of cold water is required; one gallon salt-glazed stoneware bottle, with brass stop-cock, 3*s.*

Balance in an oak box to carry one pound, and turn with one grain, 15*s.*

Pound pile of avoirdupois weights, 5*s.*

Apothecaries' scales and weights in an oak box, to weigh quantities under ½ an ounce, 2*s.* 4*d.*

Specific gravity bottle to be used with the large *balance*, contents 250 septems, equal to 1,750 grains of water, or to ¼ pound avoirdupois at 62° Fahrenheit. The weight of the liquid in this bottle when filled up to the mark, divided by 7 and multiplied by 4, shows the specific gravity. Thus, suppose the 250 septems of liquid to weigh 2,625 grains; then 2,625, divided by 7 and multiplied by 4, gives 1,500, which is the specific gravity of the liquid submitted to trial, water being 1,000, 2*s.* 6*d.*

Chemical Apparatus—*cont.* (J. J. Griffin.)

Ure's eudiometer for the analysis of atmospheric air, and for explaining the composition of water, graduated into hundredths of a cubic inch, 6*s.*

Clark's retort and receiver for the distillation of small quantities of acids, &c., 1*s.*

Faraday's tube and retort receiver in one piece, 6*d.*

Tin plate still for preparing pure water, half gallon size, adapted to an ordinary fire-place, with Liebig's condenser and block-tin pipe, 10*s.*

Nest of five Hessian crucibles, 8*d.*

Six small melting pots, 9*d.*

Berlin porcelain crucibles, with covers, one of each size, Nos. 0, 1 & 2, or 3 drams, ½ ounce, and 1 ounce. 1*s.* 9*d.*

Set of six round wooden blocks, for supporting and adjusting the heights of apparatus, 1*s.* 1*d.*

Semi-porcelain pestle and mortar, 4 inches diameter, 1*s.*

Set of six cork borers, in japanned tin case, 2*s.* 6*d.*

Rat's-tail file for enlarging holes in corks, with handle, 6*d.*

Half-round rasp for shaping corks, with handle, 6*d.*

Triangular file for cutting glass tubes, with handle, 6*d.*

One gross of corks, assorted sizes, for fitting gas bottles, &c., 5*s.*

Two pounds of glass tubing, assorted sizes, 2*s.*

Iron ladles, one large and one small, 1*s.* 3*d.*

Two small iron spoons, for trying whether substances are combustible or incombustible, 3*d.*

Tongs to hold spoons or crucibles, 1*s.* 2*d.*

Two stoneware supports, to sustain basins, retorts, and other round-bottomed vessels, in an upright position when they contain liquids, 1*s.* 6*d.*

Universal support for apparatus, consisting of Berzelius's funnel ring, Sefstrom's retort and flask-holder, Gaylussac's vice for supporting tubes, retorts, &c., Gahn's cylinder-holder; with rod, foot, and nut for connecting them, in polished black wood, 10*s.* 6*d.*

Vertical support for tube apparatus, black wood, 1*s.* 6*d.*

Assortment of delicate test papers in a box, 9*d.*

Another set, larger size and stronger colours, for lectures, 1*s.*

Atomic Symbols, consisting of cubical models of pottery, measuring about two inches each side, strongly painted in oil colours, white, black, pale, blue, dark blue, red, yellow, and green. They can be easily grouped so as to explain the atomic constitution of compounds, the theory of combination in gaseous volumes, the laws of condensation, and the double decomposition of salts, per dozen, coloured, 5*s.*

Chemical Apparatus—*cont.* (J. J. Griffin.)
Set of stencil plates, cut in zinc, for making letters or figures upon diagrams. Alphabet of capitals, 2 inch, alphabet of corresponding small letters, set of figures, 2 inch, stencil brush, and three cakes of black ink, 9*s.* 6*d.*
J. J. Griffin.

CHEMICAL PREPARATIONS.

List 2.—(J. J. Griffin.)

The price includes the bottles, which have glass stoppers where necessary.

Sulphuric acid, pure, ½ lb., 1*s.*
Hydrochloric acid, pure, ½ lb., 9*d.*
Nitric acid, pure, ½ lb., 1*s.*
Acetic acid, concentrated, 2 oz., 1*s.* 1*d.*
Ammonia, muriate, 2 oz., 5*d.*
Ammonia, nitrate, 6 oz., 1*s.* 6*d.*
Antimony, metallic, 1 oz., 3*d.*
Antimony, sulphuret, 4 oz., 7*d.*
Baryta, nitrate, 1 oz., 3*d.*
Baryta, muriate, ½ oz., 3*d.*
Bismuth, 1 oz., 7*d.*
Calcium, chloride, 2 oz., 8*d.*
Calcium, fluoride, 2 oz., 3*d.*
Cobalt, nitrate, ½ oz., 1*s.*
Cobalt, muriate, ½ oz., 1*s.* 10*d.*
Copper leaf, 24 leaves, 3*d.*
Copper, sulphate, pure, 2 oz., 6*d.*
Gold leaf, half book, 25 leaves, 10*d.*
Iron, perchloride, 1 oz., 1*s.* 2*d.*
Iron, sulphuret, 2 oz., 3*d.*
Iron, protosulphate, pure, 2 oz. 6*d.*
Iron, persulphate, pure, 1 oz., 6*d.*
Lead, acetate, pure, 2 oz., 7*d.*
Lead, red oxide, 1 oz., 3*d.*
Lime, caustic, pure, 2 oz., 4*d.*
Lycopodium, 1 oz., 10*d.*
Magnesia, calcined, 1 oz., 6*d.*
Magnesia, carbonate, 2 oz., 10*d.*
Magnesia, sulphate, 2 oz., 6*d.*
Potash, pure, ½ oz., 9*d.*
Potash, bitartrate, 2 oz., 7*d.*
Potash, carbonate, pure, 2 oz., 1*s.* 2*d.*
Potash, red prussiate, ½ oz., 5*d.*
Phosphorus, amorphous, ½ oz., 7*d.*
Silver leaf, 25 small leaves, 10*d.*
Silver, nitrate, 2 drachms, 10*d.*
Soda, borate, 2 oz., 7*d.*
Soda, bicarbonate, 2 oz., 6*d.*
Soda, nitrate, 2 oz., 8*d.*
Strontia, nitrate, ½ oz., 4*d.*
Tin, metallic, 2 oz., 6*d.*
Tin, chloride, ½ oz., 4*d.*

Amount of Chemical Apparatus and Preparations, List 2, 17*l.* 0*s.* 1*d.*

First Chemical List	3	2	8
Second Chemical List	17	0	1
Together	£20	2	9

J. J. Griffin.

CHEMICAL APPARATUS.

List 1.—(Elliott.)

	£	*s.*	*d.*
A wide-mouthed two quart bottle, without stopper	0	2	0
A large earthenware evaporating dish	0	2	3
Six test glasses	0	4	6
Two wire candle holders and a small tin candle holder	0	1	0
A cup with wire stand for burning phosphorus	0	1	0
Wire gauze	0	0	7
Two small glass tubes about 6 inches long	0	0	4
Six test tubes about 6 inches long and three quarters in diameter	0	2	0
A flexible pewter tube about 18 inches long	0	1	0
Half dozen small wide-mouthed bottles with corks, two wide-mouthed stoppered pint bottles, two glass plates for covering gas jars	0	6	9
Two dozen 3-oz. bottles with glass stoppers for solutions	0	5	6
Two Florence flasks	0	1	0
A wire stand for these flasks	0	0	4
A spirit lamp	0	1	10
A small set of breakers	0	1	2
A bottle with tube and cork adaption, for showing a jet of hydrogen, together with a glass tube for showing the musical sound produced by the ignition of the gas	0	3	0
A tall narrow glass, about 8 inches deep and 3 inches in diameter	0	2	3
A lamp glass	0	0	6

Chemicals in proper glass bottles, with glass stoppers where necessary.

Sulphuric acid, commercial	3 lbs.	—	0	1	3
Hydrochloric acid, ditto	½ „	—	0	0	7
Nitric acid ditto	½ „	—	0	1	0
Oxalic acid ditto	1 oz.	—	0	0	4
Tartaric acid ditto	1 „	—	0	0	4
Alcohol	6 „	—	0	1	6
Alum	4 „	—	0	0	3
Ammonia	8 „	—	0	1	0
Ditto carbonate of	2 „	—	0	0	5
Camphor	1 „	—	0	0	5
Charcoal sticks and powder in same bottle	4 „	—	0	6	5
Cochineal	1 „	—	0	0	6
Copper turnings	2 „	—	0	0	5
„ sulphate of	4 „	—	0	0	5
„ nitrate of	1 „	—	0	0	5
Gall-nuts in powder	1 „	—	0	0	3
Indigo	1 „	—	0	0	6
Iron, sulphuret of	6 „	—	0	0	3
„ protosulphate of	4 „	—	0	0	5
Iodine	½ „	—	0	1	5
Lead, metallic	1 „	—	0	0	3
„ litharge	1 „	—	0	0	3
„ acetate of	4 „	—	0	0	6
„ ore, galena	2 „	—	0	0	4
Lime, caustic	2 „	—	0	0	4
„ carbonate of	4 „	—	0	0	5
„ chloride of	4 „	—	0	0	4
Litmus	½ „	—	0	0	4
Mercury	½ lb.	—	0	1	3

Chemical Apparatus—*cont.* (Elliott.)		£	s.	d.
cury, perchloride of (cor-				
sive sublimate) - -	½ oz. —	0	0	4
ganese, black oxide of -	1 lb. —	0	0	6
e oil - - -	2 oz. —	0	0	4
ssium - - -	6 grs. —	0	0	8
,, iodide of - -	1 oz. —	0	1	9
ssa, caustic, partially				
rified - - -	½ ,, —	0	0	4
ssa, carbonate of, par-				
lly purified - -	2 ,, —	0	0	4
ssa, chlorate of - -	½ lb. —	0	1	3
,, red chromate of -	1 oz. —	0	0	4
,, yellow chromate of	1 ,, —	0	0	6
,, nitrate of, (salt-				
tre) - - -	4 ,, —	0	0	6
ssa, yellow prussiate of	1 ,, —	0	0	4
sphorus - - -	1 ,, —	0	0	6
um, metallic - -	6 grs. —	0	0	7
, carbonate of - -	2 oz. —	0	0	3
, sulphate of - -	4 oz. —	0	0	4
rbridge clay - -	½ lb. —	0	0	3
hur, roll - -	4 oz. —	0	0	3
,, flour - -	2 ,, —	0	0	3
oil - - -	2 ,, —	0	0	6
cuttings - -	½ lb. —	0	0	5
tha - - -	1 pt. —	0	2	1

Elliott, Brothers.

CHEMICAL APPARATUS.

List II.—(Elliott.)

	£	s.	d.
neumatic trough, also to answer the			
rpose of a hydraulic blowpipe -	1	9	0
mp for glass blowing - -	0	2	3
s receiver containing about ¼ of a			
bic foot of gas - - -	0	18	6
ut two feet of Indian rubber tubing			
r attachment - - -			
e cocks with two connectors -	0	12	0
zinc transfer dishes for pneumatic			
ough - - - -	0	2	6
gas jars; one graduated into cubic			
ches, not into the decimal parts of			
ches. One large stoppered gas re-			
iver - - - -	0	12	0
e wide-mouthed stoppered quart			
ttles - - - -	0	4	6
rge globular receiver for burning			
osphorus in oxygen gas, &c., with			
osphorus cup - - -	0	5	0
deflagrating cups - - -	0	0	9
s receiver, quart, with cock attach-			
ent - - - -	0	3	6
gas burner, for use in places where			
mmon gas can be obtained -	0	3	9
outh blowpipe and blowpipe			
pparatus - - - -			
drogen balloon - - -	0	1	6
adder, with adaption for inhaling			
otoxide or nitrogen - -	0	5	6
s bag - - - -	0	17	6
tion to gas bag for blowing hydro-			
n bubbles - - -			
drogen bottle with pressure pipe,			
., for generating large quantities			
hydrogen - - -	0	5	0

Chemical Apparatus—*cont.* (Elliott.)	£	s.	d.
A large test tube, with bent tube and cork connection, for generating oxygen - - - -	0	1	6
Half dozen assortment retorts, two funnels, filtering paper - -	0	0	9
An Argand lamp with ring. Sand bath	0	9	6
Half dozen evaporating dishes; two dozen 3-oz. stoppered bottles for solutions; half dozen test tubes; half dozen test glasses - - -	1	2	0
Three flasks; three beakers; an eight ounce graduated measure; a dropping tube - - - -	0	7	6
One retort stand with cast metal foot, iron rod, and two brass rings -	0	4	6
A small test tube stand - -	0	0	9
An apparatus for burning the mixed gases - - - -	0	12	6
Chemical scales - - -	1	0	0
A specific gravity bottle - -	0	3	0
Ure's Eudiometer - - -	0	6	0
A small nest of crucibles - -	0	1	0
A few wooden blocks - - -	0	1	6
Pestle and mortar - - -	1	1	6
A set of cork borers and rasp: an assortment of corks - - -	0	3	9
An assortment of glass tubing for glass blowing - - - -	0	3	6
Three list rings for supporting flasks, &c., Indian rubber connectors, small iron spoon and ladle - -	0	4	6

Chemicals in proper glass bottles, with glass stoppers where necessary.

		£	s.	d.
Sulphuric acid, pure -	½ lb. —	0	1	1
Hydrochloric acid, pure -	½ ,, —	0	0	10
Nitric acid, pure - -	½ ,, —	0	1	1
Acetic acid, concentrated	2 ,, —	0	1	1
Ammonia, muriate of -	2 ,, —	0	0	4
,, nitrate of -	6 ,, —	0	1	6
Antimony, metallic -	1 ,, —	0	0	3
,, sulphuret of -	4 ,, —	0	0	4
Baryta, nitrate of - -	1 ,, —	0	0	4
,, muriate of -	½ ,, —	0	6	3
Bismuth - - -	1 ,, —	0	0	6
Calcium, chloride of -	2 ,, —	0	0	6
,, fluoride of (fluor spar) - - -	2 ,, —	0	0	3
Cobalt, nitrate of - -	½ ,, —	0	1	9
,, muriate of -	½ ,, —	0	2	3
Copper leaf - -	4 leaves —	0	0	4
,, sulphate of, pure -	2 oz. —	0	0	6
Gold leaf - - -	4 leaves —	0	0	8
Iron, perchloride of -	1 oz. —	0	0	4
,, sulphuret of, pure -	2 ,, —	0	0	4
,, protosulphate of, pure	2 ,, —	0	0	4
,, persulphate of -	1 ,, —	0	0	4
Lead, acetate of - -	2 ,, —	0	0	4
Lead, red oxide of -	1 ,, —	0	0	5
Lime, caustic, pure -	2 ,, —	0	1	8
Lycopodium - -	1 ,, —	0	0	6
Magnesia, calcined -	1 ,, —	0	0	6
,, carbonate of -	2 ,, —	0	0	6
,, sulphate of -	2 ,, —	0	0	4
Potassa, pure - -	½ ,, —	0	0	10
,, bitartrate of -	2 ,, —	0	0	6
,, carbonate of, pure	2 ,, —	0	1	3
,, red prussiate of -	½ ,, —	0	3	0

			£	s.	d.
s—*cont.* (Elliott.)					
, amorphus	-	½ oz. —	0	0	6
-	-	4 leaves —	0	0	6
te of	-	2 drs. —	0	1	2
e of	-	2 oz. —	0	0	5
bonate of	-	2 „ —	0	0	4
te of	-	2 „ —	0	0	6
trate of	-	½ „ —	0	0	3
lic	-	2 „ —	0	0	6
de of	-	½ „ —	0	0	4

Elliott, Brothers.

CHEMICAL DIAGRAMS.

Diagram of a blast-furnace for smelting iron ore, shown in section on the scale of half an inch to one foot; size, 33 inches by 21 inches; coloured, mounted on cloth, 1*s.* 6*d.*

Diagram of a gasworks, showing the progress of the gas from the retort where it is made through the condensers, purifier, governor, meter, into the main; size, 33 inches by 63 inches; coloured, mounted on cloth, 4*s.* 6*d.*

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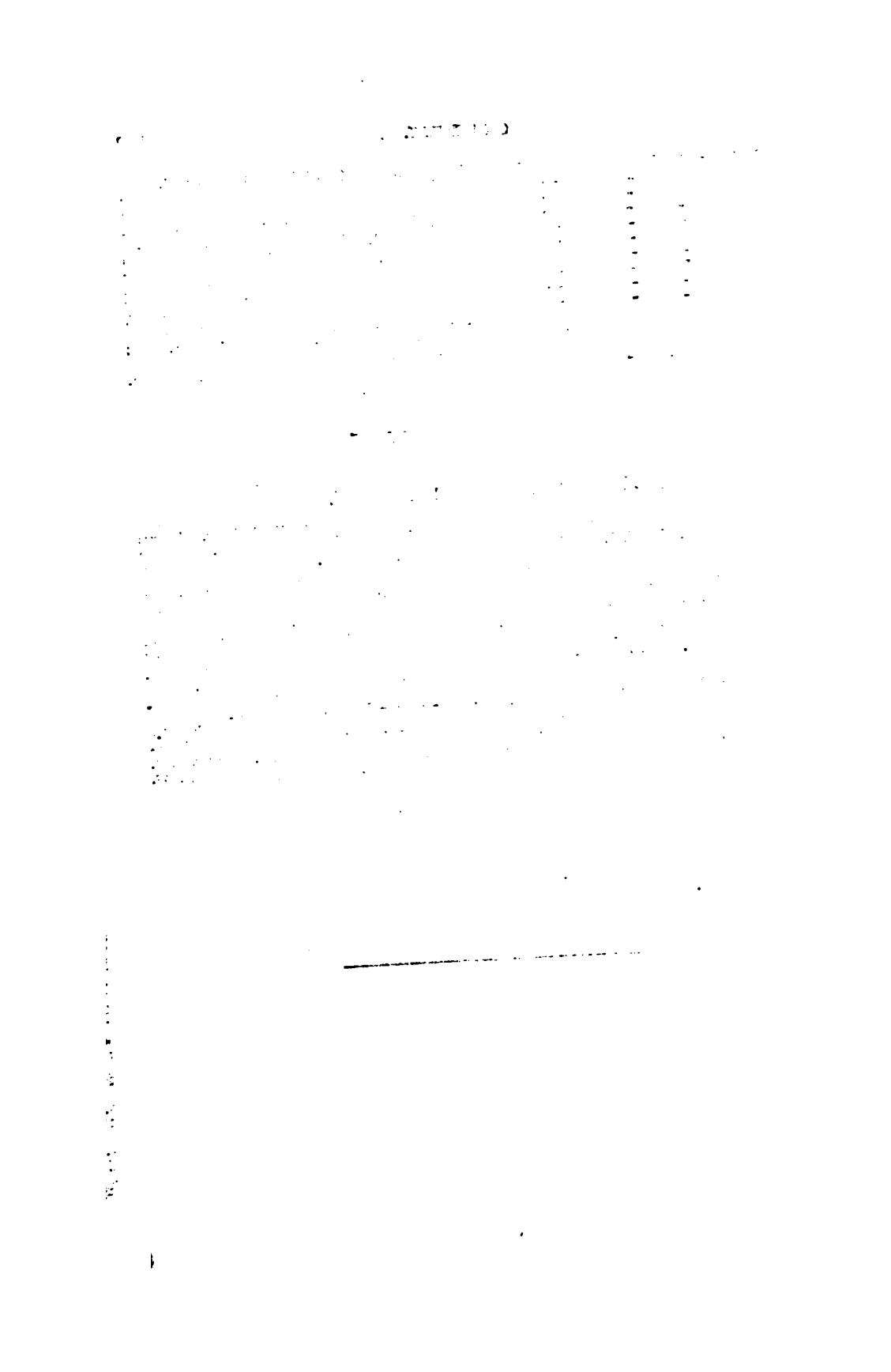
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3. Telescopes, Refracting. — Upper Diagram, Galilean Telescope; section. O, Object glass, admitting rays of light, A B; E E, Eye-glass; double concave lens, causing incident rays of light to diverge, and to enter the eye at an increased angle.
Lower Diagram, Terrestrial Telescope: section. Four lenses, G G, H H, K K, O O,: E, Section of eye of spectator; Y Z, Distant object to be viewed; A B C D, Rays of light reflected from the object Y Z; passing through the lenses, form repeated images; the final image is formed on the retina of the eye, R R R, inverted, so as to be seen correctly and upright, as at Y Z; L M shows the increased apparent size given to the object by the increased angle at which the rays of light enter the eye from the lens or eye-glass G G.

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5. Telescopes, Reflecting. — Upper Diagram, Newtonian Telescope; section. C C C, The outer case or tube, open at C G; M M, Mirror of concave form, reflecting rays of light, A B O, from the object Y Z, to a point F, called the focus: B B, Smaller plane mirror intercepting the reflected rays, and turning them through the eye-glass, H, into the eye of the spectator, E. This kind of telescope invented by Sir I. Newton. One, manufactured by his own hands, is still in possession of the Royal Society.

 Lower Diagram. Cassegrainian Telescope, named after its inventor, M. Cassegrain.—C C C, Outer case, or tube; M M, Concave mirror, with aperture in the centre; I O, Rays of light from the object, Y Z, reflected from M M to smaller convex mirror, B B, and thence returned to the eye of the spectator through the eye-piece, E E, G G; A A, Screw apparatus, communicating with smaller mirror, B B, by which its position may be altered.
6. Lord Rosse's Great Reflecting Telescope, at Parsonstown, Ireland: external view. The diameter of the mirror or speculum is 6 ft.; its thickness 5½ in. at the edges, and 5 in. in the centre, it consists of a mixture of copper and tin; the casting and polishing became a work of immense difficulty and cost. Its focal length is 54 ft. The tube, which is of deal, hooped with iron, is 56 ft. long and 7 ft. in diameter, is so fixed on an universal joint as to swing from the horizon, due south, to the pole-star; with lateral range between the walls, of 15 degrees east and west. It is of Newtonian construction, the spectator looks in at the upper part of the side of the tube; standing on galleries which project from the walls of masonry, and which are moveable.

	The Set.	Single Diagrams.
To Subscribers	11*s.*	1*s.* 10*d*
To Non-Subscribers	15*s.*	2*s.* 6*d*

Working Men's Educational Union.

II.—The Microscope.

1. External View of a Compound Microscope: —A, Fixed tube or barrel; B, Sliding tube to adjust focus; C, Eye-piece; D, Object-glass; E, Pedestal; F, Concave mirror to reflect light from beneath upon the object placed on a slider at G.
2. Internal arrangement of lenses, and operation of single and compound microscopes (vide Dr. Dick's Telescope and Microscope, pp. 99 and 109).
3. The perfection of works of nature, and the imperfection of art, illustrated by the Microscope (vide Dr. Dick's work, p. 183):—A, Sting of wasp, in its sheath; contrasted with B and C, a needle and pin: D, Structure of sweet-briar leaf, showing aromatic globules, contrasted with E, texture of fine muslin; F, Hooks on the foot of spider; contrasted with G, a fish-hook; I. Structure of wood shown by transverse section of stalk of virgin's bower, contrasted with J, a piece of fine lace; H, Magnified fac-simile of letter H, taken from one of the works recommended to illustrate imperfection of type founding.
4. Various objects magnified:—A, Crystals of snow; B, Human hair; C, Hair of caterpillar; D, Hair of mouse; E, Hair of Indian bat; F, Circulation of blood in the membrane of the foot of a frog.
5. A, Cheese mite: B C, Crustaceous animalcules found in ditches, the female carrying spawn; D, Larva of gnat. (*Note.*—The cheese mite is said to occupy the middle place in the scale of magnitudes of known animal existences, descending from the whale to the smallest animalcule yet discovered by the aid of the microscope.)
6. Various animalcules: — Rotifera. or wheel animalcules; A, Water-nymph (*Linnias cera tophylli*); B, the beaded melicerta; C, Vorticella, or bell-shaped animalcule, the coloured spots show the cells of the stomach; D, A revolving monad (*Volvox globator*), the dark spots represent clusters of young; E, Trumpet-shaped animalcules (*Stentor polymorphus*) adhering to a twig; F, Fossil animalcule, found in chalk, etc. (*Xanthidium ramosum.*)

	The Set.	Single.
To Subscribers	11*s.* 0*d.*	1*s.* 10*d.*
To Non-Subscribers	15*s.* 0*d.*	2*s.* 6*d.*

Working Men's Educational Union.

HEAT.

An iron wire and a copper wire, of the same length and thickness, to show the difference in the conducting power of these two metals. They are combined where they are to be heated, and have cups to hold phosphorus at the other ends, 6*d.*

Faraday's apparatus to show the convection of heat. Two glass vessels of about a pint capacity, connected by two glass tubes, showing the principle of heating by hot water pipes, 3*s.*

Apparatus for showing the expansive force of steam. Large hard glass flask, with long glass tube, fitted with a cork, 1*s.* 6*d.*

Apparatus, consiting of an iron bar and plate gauge, to show that metals expand in all directions when heated, commonly called a pyrometer, 4*s.*

Heat—*cont.* (J. J. Griffin.)

Apparatus to show the unequal expansion of iron and copper when heated; consisting of a plate of iron and one of copper, riveted at the ends, with a handle. If the plates are heated in the middle over a spirit lamp, the difference of expansion becomes visible, 2*s.*

Apparatus for breaking a bar of iron ¼-in. diameter by the force produced by the contraction of another bar of iron heated to redness, and rapidly cooled by applying cold water. With 12 bars for breaking, 7*s.*

Chemical thermometer, enclosed in glass, for immersion in corrosive liquids; scale, from − 40° to + 35° Fahrenheit, in a pasteboard case, 3*s.*

Model thermometer, to illustrate the expansion of liquids by heat; 16 ounce flask, with 36 in. tube, scale printed on white wood, 30 in. long, comprehending 100°, from 60° to 160° Fahrenheit. The apparatus is to be filled at 60°, up to the mark 60°, with water coloured blue by sulphate of indigo, and is then to be heated over a lamp; the instrument being so placed that the rise of the blue water can be seen by the pupils, 3*s.*

Glass spirit lamp, with cap and wick, 1*s.*

Wood naphtha, for burning in the lamp, 1 pint in a stoppered glass bottle, 2*s.* 3*d.*

German hard glass retort, with steam pipe attached, for showing the production of a vacuum by the condensation of steam. The steam pipe is to dip into water contained in a glass beaker, and when the air is entirely expelled from the retort, the lamp is to be removed, and the water allowed to go back and fill the retort, 10*d.*

Flask of hard German glass, with smooth mouth and cork, to show that water boils at a reduced temperature in vacuo, 10*d.*

Wollaston's model steam engine, 3*s.*

Concave reflector, silvered copper, burnished, 6 in. diameter, with rod, foot, and thumb-screws. 4*s.* 6*d.*

Burning glass. No. 1 of the set.

Apparatus for showing the principle of ventilation.

Air thermometer, with graduated scale, 3*s.*

Fire syringe, for producing fire by the rapid compression of air, with German tinder. 3*s.* 1*d.*

Pulse glass, or philosophical hammer, consisting of a tube with two bulbs, large size, for showing the ebulition of spirits in vacuo, on applying the heat of the hand. Mounted on a stained wooden support, 3*s.* 6*d.*

A hygrometer.

Three tin canisters, 5-in. cubes with necks for thermometers; one bright, one black, one with two faces black, to show the difference in the radiating power of the different surfaces. If a black and a bright surface of cubes containing water of the same temperature are opposed to the two bulbs of No. 131, the difference in effect is immediately visible, 4*s.*

Ether, 2 ounces, in a stoppered glass bottle, 1*s.* 3*d.*

Long thin glass tube, in which water may be boiled over ice, to show that heat does not descend in liquids, 6*d.*

Amount of Apparatus for Experiments on ; 2*l.* 11*s.* 9*d.* J. J. Griffin.

Heat; Ventilation; the Theory of the Steam Engine.

	£	*s.*	*d.*
An iron wire and a copper wire, of the same length and thickness, to show the difference of the conducting powers of these metals. The wires are bound together at the ends that are to be heated, and have cups to hold phosphorus at the other ends -	0	1	6
Faraday's apparatus for showing the convection of heat, consisting of two glass vessels, having a capacity of about half a pint, connected by two glass tubes, from 2 to 2½ ft. long	0	3	9
A small glass tube, fitted air-tight to the cork of a flask, for showing the expansion of air and water by heat. When the expansion of water is to be shown, the bottle is filled completely with water. It will also show the expansive force of steam - -	0	1	9
Apparatus to show the expansion of metal by heat, consisting of a metal bar and plate gauge - - -	0	2	3
Apparatus to show the unequal expansion of iron and copper when heated, consisting of a plate of iron and one of copper, rivetted at the ends. If the plates be heated over a spirit lamp, the difference of expansion becomes visible - - -	0	4	6
Two cheap chemical thermometers -	0	3	0
A spirit lamp - - - -	0	1	10
A small retort, for showing the formation of a vacuum by the condensation of steam - - -	0	0	9
A flask, with a stout neck and a good cork, for showing that water boils at a reduced temperature in a vacuum	0	1	6
Wollaston's model steam engine -	0	4	6
A concave tin reflector (included in the optical list) - - -	0	1	6
A burning glass - - -	0	0	6
Apparatus for illustrating the principles of ventilation, consisting of two glass tubes, about 9 inches long and 1 inch in diameter, inserted in a cork fitted to a tall glass receiver, in which a small wire candle-holder may be placed. One of these tubes slides up and down, and thus conveys fresh air to the bottom, the middle, or the top of the receiver - - -	0	2	6
An air thermometer - - -	0	4	6
A fire syringe - - - -	0	2	8
Philosophical hammer - - -	0	3	0
A simple hygrometer - - -			
A tin canister, partly covered with lamp-black, to show, when filled with hot water, the different quantities of heat radiated from the different surfaces. Also, two such canisters, one blacked and one bright, to show the difference in the loss of heat in the two cases - - - - -	0	7	0
Ether - - - - -	0	3	0

Elliott, Brothers.

Heat, &c.—*cont.*

	£	s.	d.
Set of meteorological apparatus, consisting of a good working barometer, wet and dry bulb hygrometer, register day and night thermometers, and pleurometer with graduated glass - - - -	1	12	6
Oxycalcum lantern and microscope, capable of showing natural or painted objects, 12 feet in diameter, very brilliant and clearly defined, 3¼ inch condensers, with gas bag, pressure board, copper bottle, purifyer, &c. - - - -	5	5	0
Specimens of natural objects, and slides produced by photography, illustrating natural history, botany, architecture, sculpture, geology, &c., suitable for the foregoing apparatus, each - - - - -	0	2	0
Achromatic microscope, with animalculæ cell and forceps in mahogany box - - - - -	0	10	6
Set of apparatus for illustrating heat, steam, and ventilation, consisting of iron, copper, lead, and glass rods for conduction, Farady's apparatus for connection, large bulb tube, compound bar for unequal expansion, bar and gauge for expansion, two thermometers, spirit lamp, two flasks, one for showing that water boils at a reduced temperature in a vacuum, concave silvered reflector and stand, an air thermometer, fire syringe, apparatus for illustrating the principle of ventilation, cryophorus and whalebone hygrometer, and three tin canisters bright and black for radiation, Wollaston's model steam-engine, and small working model of a steam-engine -	2	14	0
Set of magnetic apparatus, consisting of a pair of bar magnets 9 inches long, supported on points and brass stands, horse-shoe magnet, iron filings, rods and bars, and needles for induction, &c., magnetic needle and stand, dipping needle, and magnetic swan - - - - -	0	16	0
Set of electrical apparatus, consisting of a 16-inch plate electrical machine, with brass negative and positive conductors, brass ball and point, electrical battery of 4 gallon jars, insulated stool, jointed discharger, Leyden jar, quadrant, electrometer, head of hair, electrical flywheel, pendulum and set of three bells, electrical inclined plane, spiral tube and orrery, luminous spangles, pith balls, gutta percha electrophorus, gold leaf electroscope, glass and resin rods, brass chain, tin foil, shell lac, gutta percha sheet, and amalgam - - - - -	7	15	6
Set of galvanic and electro magnetic apparatus, consisting of a platinum or platinised silver battery of 6 cells,			

Heat, &c.—*cont.*

	£	s.	d.
platinum electrodes, apparatus for decomposition of water, charcoal points and holders, apparatus for decomposition of neutral salts, fine platinum and silver wire, electro magnet and keeper, sustaining 1 cwt., rotating magnet, and Œrsted's experiment and apparatus, illustrating the electric telegraph -	4	4	0

Horne & Thornthwaite.

METEOROLOGY.

Rain gauge - - - -
An hygrometer with a wet and dry bulb - - - -
A barometer with vernier and thermometer attached - - -
A self-registering thermometer -

Elliott, Brothers.

Rain Gauge. 14*s.*
Mason's Hygrometer. 8*s.* 6*d.*
Barometer, with Vernier and Thermometer. 2*l.* 2*s.*
Six's Self-Registering Thermometer. 12*s.* 6*d.*
Amount of Meteorological Apparatus, 3*l.* 17*s.*

J. J. Griffin.

Barometer, 13*s.* 6*d.* A. Davis & Co.
Thermometer, of Box Wood, 8 in., 14*s.*, and 21*s.* per dozen. J. Parkes & Son.
——— Boxwood, 8*s.* 6*d.* per dozen.
——— Japanned, 16*s.* ,,
A. Davis & Co.
Spirit Level, 12 in., 3*s.* 10*d.* J. Parkes & Son.

ELECTRICITY.

Bakewell, F. C. Electric Science; its History, Phenomena, and Applications. crown 8vo. 2*s.* N. Cooke, 1853.
Electricity; its Phenomena, Laws and Results. 16mo. 3*s.* (*Religious Tract Society.*)
Harris, Sir W. S. Rudimentary Electricity. 12mo. 1*s.* 6*d.* J. Weale, 1854.
——— Rudimentary Treatise on Galvanism, and the General Principles of Animal and Voltaic Electricity. 12mo. 1*s.* 6*d.* J. Weale, 1856.
——— Rudimentary Magnetism. 12mo. 3*s.* 6*d.* J. Weale, 1850.
Highton, E. The Electric Telegraph; its History and Progress. 12mo. 2*s.* J. Weale, 1852.
Lardner, Dr. Hand-book of Electricity, Magnetism, and Acoustics. post 8vo. 5*s.* 1856.
——— The Electric Telegraph. 12mo. 2*s.* 1855. Walton & Maberly.
Parker, R. G. Electricity. (*Educational Course.*) 12mo. bound. 1*s.* Allman & Son.
Peck, A. Catechism of Electricity. 18mo. 9*d.* Relfe, Brothers.

List 1.—(J. J. Griffin.)

Stout Rod of sealing wax, 12 in. long, 2*s.*
Six slips of thin gutta percha for showing electrical attraction and repulsion, 9 in. by 2 in., 6*d.*

Electricity—*cont.* (J. J. Griffin.)

Two sheets of gutta percha, size 18 in. by 12 in. for generating electricity, 2*s.*

Pair of fur rubbers for exciting electricity in the, sheets of gutta percha, 2*s.* 6*d.*

Tea-tray, japanned tin, to be used as a prime conductor of electricity, about 16 in by 12 in., 1*s.*

Electrophorus, consisting of a circular tin disc, 10½ in. diameter, with wired edge, with stout 10-inch gutta percha handle, to be used with one of the sheets of gutta percha as a base instead of a plate of pitch, 2*s.* 6*d.*

Pair of tin plate discs, with wired edges, 5 in. diameter, to be supported on the table tops of the insulating stands, No. 151, 8*d.*

Roll of tin foil, 6*d.*

Six sticks of shellac for making delicate electroscopes, as recommended in Tate's "Little Philosopher," 6*d.*

Book of Dutch gold, 3*d.*

Leyden jar, pint size, 3*s.*

Insulated electric conductor, brass rod, with three brass balls and a moveable fork, with gutta percha pillar on wooden foot, 10 in high, to be charged by means of the sheet of gutta percha, No. 147, and the fur rubber, 6*s.*

Two gutta percha insulating stands, about 5 in. high, with needle tips, 1*s.* 6*d.*

Two ditto, with flat circular table tops, 1*s.* 6*d.*

These stands are for supporting the small magnetic and electric apparatus contained in the box, No. 144. Also No. 151, &c.

Amount of the Electrical Apparatus, 1*l.* 4*s.* 5*d.*

J. J. Griffin.

List 2.—(J. J. Griffin.)

Plate electrical machine, 16-in. plate, mounted in a solid mahogany frame, with massive brass conductor, 3*l.* 13*s.* 6*d.*

Box of amalgam, 1*s.*

Insulating stool, polished wooden top, 13 in. by by 11 in., four massive glass legs, 5*s.*

Jointed discharger, with glass handle, 4*s.* 3*d.*

Battery of six Leyden jars, quart size, in a box with a cover, 1*l.* 18*s.*

Quadrant electrometer, 4*s.* 6*d.*

Head of hair, for showing electrical repulsion when placed on the conductor of the machine, 2*s.* 6*d.*

Glass plume, for the same experiment, 2*s.* 6*d.*

A dozen pith balls, 8*d.*

Strong pointed brass rod adapted to the machine and intended to electrify the inside of a glass beaker, which is then to be placed over the pith balls, to set them in motion, 6*d.*

Set of three electrical bells, mounted, 4*s.* 6*d.*

Water bucket, to show electrified water, 1*s.*

Electrical swan, to swim in water, 1*s.* 6*d.*

Electrical spider, to be suspended between two Leyden jars differently electrified, 6*d.*

Aurora Borealis apparatus, consisting of a brass plate with three spikes to screw into the plate of the air-pump, and another ground brass plate with three spikes, adapted to the top of the cylinder of the guinea and feather experiment, pneumatic apparatus, No. 57, 7*s.*

Whirl or fly-wheel, 2*s.* 6*d.*

Electricity.—*cont.* (J. J. Griffin.)

Electrical orrery for showing the revolutions of the moon round the earth and of the earth and moon round the sun, 5*s.* 6*d.*

The electrical inclined plane, 12*s.*

The electrical pendulum.

Thunder house, for showing the effects of a stroke of lightning, 4*s.* 6*d.*

The electrical bomb, 4*s.*

Luminous spangles.

The hand spiral, or luminous tube, 2*s.* 6*d.*

Electrical pistol for exploding the oxyhydrogen gas, 4*s.*

Six yards of brass chain, 1*s.* 9*d.*

Amount of the Electrical Apparatus, List 2, 8*l.* 4*s.* 2*d.*

J. J. Griffin.

	£	s.	d.
A stout stick of sealing wax -	0	1	0
A strip of card paper suspended on a pin passing through a cork, for showing electrical attraction - -	0	0	4
A strip of thin gutta percha, for showing electrical attraction and repulsion - - - - -	0	0	9
A sheet of stout gutta percha, about 24 inches by 12 inches, for generating electricity in various forms by the friction of an old pair of fur cuffs or cat's skin - - -	0	1	2
A tray about 16 inches long by 12 inches broad, to form a prime conductor -	0	3	0
A tin plate having a gutta perch tube attached, forming a powerful electrophorus, with a sheet of gutta percha - - - - -	0	2	6
Two small tin plates, to be supported on wine glasses, for making various electrical experiments with the electrophorus, &c. - - -	0	0	3
A few tin-foil slips and a piece of shellac for making delicate electroscopes - - - -	0	0	9
A revolving electroscope, consisting of a strip of stiff gutta percha about 8 inches long, turning on a point, with gilt balls suspended by silk threads from the extremities -	0	1	4
A small electrical jar - - -	0	2	6
A prime conductor, with moveable point or fork; to be insulated on a tall chemical glass - - -			

Observation.—In using electrical apparatus, the following precautions must be observed:—All the apparatus should be clean and free from dust; it should be carefully warmed before a good fire and then (where the articles admit of it,) well rubbed with warm flannel immediately before it is used. The fur cuffs or rubbers should be well warmed immediately before being applied to the gutta purcha, which should be laid on a smooth table perfectly free from dust and moisture. The master should never attempt to make electrical experiments on a damp day or in a cold room.

Elliott, Brothers.

Electricity—*cont.* (Elliott.)

List II. (additional to List I.)

	£	s.	d.
A plate machine, 16 inches in diameter	3	7	6

Observation.—Electrical machines are frequently broken by placing them too near the fire; before using the machine the cushions should be cleaned, and if necessary spread with fresh amalgam, and their pressure adjusted; the glass pillars and plate should, before commencing, and again from time to time, be rubbed with warm flannel; so should the uncoated surface of the battery, and all insulating stands.

Electrical stool	0	4	6
A discharging rod	0	3	0
A small battery, containing about six jars	1	5	0
A quadrant electrometer	0	3	9
Head of hair	0	2	3
Pith balls, with a strong pointed brass rod to fix into the prime conductor	0	0	9
The electrical bells	0	4	6
Apparatus to show electrified water	0	2	3
The electrical swan	0	1	6
The electrical spider	0	0	9
Apparatus to show the passage of electric light through rarefied air	0	2	6

This apparatus requires the air pump, and is adapted to receiver (21) and guinea and feather plate (30) in the air pump apparatus.

The electrical fly-wheel	0	1	6
The electrical orrery	0	4	6
The electrical inclined plane			
The electrical pendulum	0	2	3
The thunder house	0	5	3
The electrical bomb	0	4	6
Luminous spangles	0	3	0
The spiral tube	0	2	3
The electrical pistol	0	3	0

Elliott, Brothers.

MAGNETISM.

Pair of 8-in. bar magnets, with keepers; will carry 1½ lb., 3*s.* 6*d.*

Horse-shoe magnet, 10-inch, with keeper; will carry 10lb., 4*s.* 6*d.*

Clean iron filings, 4 ounces in a bottle, 6*d.*

Magnetic swan, in a box, 8*d.*

Pair of magnetic fish, in box, 1*s.* 6*d.*

The mouse house, 3*s.*

Twelve pieces of soft polished iron rod, for showing the law of magnetic distribution in a bar magnet; 6 of ¼ in., 6 of ½ in. in length; all ¼ in. in diameter; in a bottle, 3*s.*

Soft iron bar, 8 in. long, to show magnetic induction, 9*d.*

Box containing the following small magnetic and electric apparatus, most of them adapted to the gutta percha insulating stands, No. 157, 158. These instruments are described in Tate's "Electricity," and Tate's "Little Philosopher." 6*s.*

1. Six stout sewing needles.
2. *Six* knitting needles.

Magnetism—*cont.*—(J. J. Griffin.)

3. Magnetic knitting needle, suspended by a thread.
4. Slight brass beam, with magnetised sewing needle and counterpoise.
5. Unmagnetized needle, fitted for showing the magnetic dip.
6. Magnetic compass needle.
7. Brass electric needle.
8. Gutta percha beam to show electric attraction, when mounted on an insulating stand, No. 157.
9. Pair of pith balls, mounted, to serve as an electrometer; to be suspended by a pin stuck in the edge of the insulating stand, No. 158.
10. Tate's revolving electroscope, gutta percha beam, with two gilt pith balls; to be suspended from the needle point of the gutta percha insulating stand, No. 157.
11. Six pith balls.
12. Slip of cardboard, to be mounted on an insulating stand, 157, to show electrical attraction.

Amount of the Magnetic Apparatus, 1*l.* 3*s.* 5*d.*

J. J. Griffin.

List I.

A pair of bar magnets, about 9 inches long, and ¾ inch broad, and ¼ inch thick	0	2	6
A small horse-shoe magnet	0	0	6
Clean iron filings	0	0	2
A magnetic swan	0	0	9
Six small pieces of soft iron rod, about ½ inch long, and ¼ inch diameter, for showing the law of magnetic distribution in a bar magnet	0	0	9
About half a doz. stout sewing needles	0	0	2
About half a doz. fine knitting needles, one fitted up with cork and needle axis, for showing the magnetic dip	0	0	9
A soft iron bar, about 6 inches long, for showing magnetic induction	0	0	4
A simple magnetic needle, formed by a strip of card paper and sewing needle, &c.	0	0	4
A magnetized needle suspended by a thread, for illustrating the magnetism of the earth	0	0	2
A magnetic needle suspended on a steel point	0	3	0

Elliott, Brothers.

GALVANISM.

Smee's galvanic battery, six cells in separate compartments of a stoneware trough, mounted in mahogany, with rackwork motion to raise the metals from the acids when not in action, and an arrangement for combining the plates either for quantity or intensity; the platinized silver in each cell measures about 3 in. by 4½ in., 2*l.* 12*s.* 6*d.*

Apparatus for decomposing water and collecting the gases separately, 2*s.* 6*d.*

Galvanism—*cont.* (J, J. Griffin.)

Apparatus for decomposing neutral salts, V tube with platinum electrodes, 4*s.* 6*d.*

Charcoal holder, insulated by a wooden foot; one of the holders has a sliding motion, 4*s.* 6*d.*

Pair of solid charcoal points, suited for No. 191, 1*s.* 6*d.*

Fine platinum wire for ignition, one yard, 6*d.*

Electro-magnet and keeper, a single coil; will carry 100 lbs., 10*s.*

Ritchie's rotating experiment, 4*s.*

Oersted's electro-magnetic experiment, 7*s.*

Telegraph model, with table of signs, 12*s.*

A large apparatus of this description, with a 6-in. needle; for use at lectures, 18*s.*

A reverser, for use with the electric telegraph model, and other galvanic experiments, 18*s.*

Coil to give shocks, 13*s.*

Amount of the Galvanic Apparatus, 5*l.* 12*s.*

J. J. Griffin.

	£	*s.*	*d.*
Smee's battery, with 6 cells. Each plate about 5 inches by 3 inches -	1	5	6
Apparatus for the decomposition of water - - - -	0	4	6
Apparatus for the decomposition of neutral salts - - -	0	7	6
Charcoal points with holders -	0	2	3
Some fine platinum wire - -	0	2	3
A galvanic magnet, with keeper, a single coil - - - -	0	8	0
A rotating magnet - - -	0	4	6
A small magnet bar suspended for showing the principle of the electric telegraph, &c. - - -	0	2	6

Elliott, Brothers.

NATURAL PHILOSOPHY.

(Comprising 250 Diagrams appropriately coloured.)

Popular Diagrams of Natural Philosophy, executed on 4to. Drawing Boards, full coloured, with Descriptions. 1*s.* each.

1. Properties of Bodies; illustrating the great laws of nature.

Popular Diagrams—*cont.*

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4. Hydrostatics; illustrations of the laws of liquids, pressure of water, supply of towns, &c.
5. Hydraulics; pumps, fountains, fire-engine, water-wheels, and water machinery.
6. Pneumatics; illustrations of the important properties of the air.
7. Acoustics; illustrating the laws of sound, echoes, musical tones, the ear, &c.
8. Optics; the eye, laws of light, lenses, telescopes, optical apparatus, &c.
9. Electricity; illustrations of its nature and properties; galvanism, &c.
10. Magnetism; the compass, dipping needle, terrestrial magnetism, electric telegraph, &c.
11. Chemistry; table of the elements of matter, illustrations of distilling, caloric, &c.
12. Popular Account of the above sciences, and description of the 250 diagrams.

The Series of 12 enclosed in an elegant Portfolio without extra charge. J. Reynolds.

School Tablets, arranged by W. B. Tegetmeier, on Sheets, 1*s.* the set.

No. 1. Specific Gravities, 30 in. by 20 in. 3*d.*
2. Temperatures, 30 in. by 20 in. 3*d.*
3. Diagram of Thermometer. Fahrenheit and Centigrade. 5 ft. by 10 in. 6*d.*

Groombridge & Sons.

Additional Apparatus for illustrating the Theory of the Pendulum. 1*l.* 1*s.* J. Prothero.

A Machine for illustrating Centrifugal Motion. 10*s.* J. Prothero.

A Photographic Dish, in Papier Mâché, the advantages being flatness, smoothness, and durability. Jennens & Bettridge.

Pocket Compasses 2*s.*, 4*s.* 3*d.*, and 7*s.* 6*d.* each. J. Parkes & Son.

FOREIGN CONTRIBUTIONS.

Physique et de Chimie, Leçons de. Lessons on Physics and Chemistry. By C. Cabart. Two parts, text and plates. 8vo.
Hachette, Paris, 1853

——— Eléments de. Elements of Physics. By M. Pouillet. 6th edition. 2 vols. 8vo.
Hatchette, Paris, 1853.

——— et de Météorologie, Notions Générales de. General Views of Physics, &c. for the Young. By M. Pouillet. 2nd edition. post 8vo.
Hachette, Paris, 1853.

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Aarau, 1850-1.

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Fairbairn, J. Hand-book of Natural Philosophy, "Hydrostatics." 12mo. 6*d.*

——— ——— "Hydraulics." 12mo. 6*d.*
W. & A. K. Johnston.

Galbraith and Haughton. Manual of Hydrostatics. 12mo. 2*s.*
Longman & Co., 1855.

Glynn, J. Rudimentary Treatise on the Power of Water. 12mo. 2*s.* J. Weale, 1853.

Hughes, S. A Treatise on Waterworks for the Supply of Cities and Towns. 12mo. 3*s.*
J. Weale, 1856.

Lardner, Dr. Hand-book of Hydrostatics, Pneumatics, and Heat. post 8vo. *5s.*
Walton & Maberly, 1855.

Parker, R. G. Hydrostatics, &c. (Educational Course). 12mo. bound. *1s.*
Allman & Son.

Phear, J. B. Elementary Hydrostatics. With numerous Examples. post 8vo. *5s. 6d.*
Macmillan & Co., 1852.

Reid, Hugo. Natural Philosophy, "Pneumatics." 12mo. *2s.* Oliver & Boyd, 1841.

Swindell, J. G. Rudimentary Treatise on Well-digging, Boring, and Pump Work. Revised by G. R. Brunell. 12mo. *1s.*
J. Weale, 1854.

Tate, T. Hydrostatics, Hydraulics, and Pneumatics. (Gleig's School Series). 18mo. *1s.*
Longman & Co., 1851.

Tomlinson, C. Pneumatics for the Use of Beginners. 12mo. *1s.* J. Weale, 1854.

Walton, W. A Collection of Problems in Illustration of the Principles of Theoretical Hydrostatics and Hydrodynamics. 8vo. *10s. 6d.*
Deighton, Bell, & Co., 1847.

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Working model of an Archimedian screw, a metal pipe wound round a cylinder, mounted on a metal frame over a water cistern, japanned. *9s.*

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Hydrostatics, &c.—*cont.* (J. J. Griffin.)

Paper smoke jacks, two patterns, a wheel and a serpent; they may be suspended over a lighted lamp by a thread, or on a needle point, placed on the pole of a magnet, *4d.*

Glass squirt, 8 in. long, 1 in. diameter, *1s. 8d.*

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Mercury, 2 lbs. in a strong glass bottle, *6s. 6d.*

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Glass syphon containing a fountain, *3s. 6d.*

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Light glass flask to swim in the jar, No. 64, to illustrate specific gravity, *3d.*

Hydrostatics, &c.—*cont.* (J. J. Griffin.)

Pair of narrow bottles connected by a tube, to show the transfer of liquids from one vessel to another by the pressure of air under the receiver of the air-pump, 1*s.*

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Bell, to be moved in an exhausted receiver (No. 57 or No. 67), by the aparatus No. 71. 10*s.*

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Cryophorus attached to a brass plate; for showing the freezing of water, by the evaporation of ether within the exhausted receiver of the air-pump, 6*s.*

Heron's ball, to produce a fountain in vacuo; it should be half filled with water. 1*s.*

Heron's fountain, for showing the elastic force of compressed air; the middle tube and half of each ball should contain air; the rest be filled with water, including the funnel. 2*s.* 6*d.*

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Hydrometer, one glass spindle with solution tube; it shows all specific gravities, from alcohol to oil of vitriol, or from 0·7 to 2·0 water being 1·0. In a pasteboard case, 6*s.* 6*d.*

Conical receiver for the fountain experiment, 15 in. high, 5 in. diameter at the base; to be used with the transfer plate of the air-pump. 4*s.* 6*d.*

Bottle of paraffine oil for lubricating the air-pump, 1*s.*

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Set of hydrostatic and hydraulic apparatus, consisting of glass plates, tubes, and balls for capillary attraction, V tube for showing relative specific gravity, pressure, &c. of fluids, working model of overshot and undershot wheels, Archimedian screw, Carlesian divers in glass, glass syringe, glass syphon, Wurtemburg syphon, working model of the force and common life pump, syphon fountain, Barker's mill, hydrometer for specific gravities, and working models of hydrostatic press	2	5	6

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A small tube, about 9 inches long, ¼ inch wide, for showing the same with a little mercury - - - -	0	0	2
A bent or V tube, for showing the relative specific gravity, pressure, &c., of water and mercury - -	0	6	3
A set of capillary tubes - -	0	0	2

Hydrostatics, &c.—*cont.* (Elliott.)

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Two plates of window glass, about 3 inches square, for showing capillary attraction; also two wooden balls for showing the effects of the same -	0	0	9
A working model of overshot and undershot waterwheels; the wheels made of tin. The water may be delivered into the buckets by means of a syphon - - - - -	0	5	6
An apparatus for showing the action of the Archimedian screw; a flexible pewter pipe wound in a spiral form about a rod pointed at the lower extremity - - - - -	0	5	6
The bottle imps - - - -	0	1	6
A smoke jack. The wheel suspended by a thread or by a needle point placed on the pole of a magnet. The wheel may be suspended over a candle or lamp - - - -	0	0	3
A glass squirt - - - - -	0	1	10
A straight tube, about 31 inches long and $\frac{3}{4}$ inch bore, for performing the Torricellian experiment - -	0	5	6
A glass syphon, of the common form -			
A Wurtemburgh syphon with equal branches turned upwards at both ends - - - - -			
A working model of the common pump, the barrel formed of a lamp glass or wide tube about 8 inches long, and 1$\frac{1}{4}$ inch in diameter; the valves of silk, gutta percha, or common marbles - - - - - -	0	5	0
Tate's Mercurial Hydraulic Pump. The barrel formed out of a glass tube about 16 inches long, and 1$\frac{1}{4}$ inch in diameter; bent round at the bottom, and drawn away to a diameter of $\frac{1}{4}$ inch. This pump works without either valves or piston. About $\frac{1}{2}$ lb. of mercury is placed in the bend of the tube; the plunger is raised and depressed; in the upward stroke the water is raised by the plungerhead, in the downward stroke by the joint action of the pressure from the mercury and the displacement by the plunger - - - -	0	3	6
A syphon fountain - - -	0	2	0
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An air pump on the common construction, single cylinder with attached transfer plate; the cylinder about 12 inches long and 1$\frac{1}{4}$ inch in diameter. Or Tate's double acting air-pump, with a cylinder of a 7 inch stroke, and 1$\frac{1}{4}$ inch in diameter -	1	16	6

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Common bell-shaped receiver - -	0	7	6
Open receiver, with ground glass plate for fountain, and for performing experiments 25, 26, 30; about 20 inches high - - - - -	0	7	6
A flask with cap, for showing the weight of air; the cubic contents of the flask stated on it - - -	0	6	9

Hydrostatics, &c.—*cont.* Elliott.)

	£	s.	d.
A small bladder for showing the elasticity of the air - - -	0	0	6
A hand and bladder glass - -	0	3	0
A tube with large bulb to be placed in receiver 21, for showing the laws of pressure, &c. - - -	0	3	6
A long gas jar, with bottle to correspond, for illustrating the law of specific gravity, &c. - - -	0	4	6
Two vessels connected by a tube, &c., to show the transfer of liquids from one vessel to another - -	0	2	6
Magdebourg hemispheres, or a plate placed upon the hand glass (24). By means of a cord attached to the ring on this plate and passing over a pulley, the exact pressure of the air on a surface equal to the mouth of the receiver may be ascertained -	0	3	0
Balance weight and cork - -	0	4	6
Guinea and feather apparatus; the plate to be used with receiver 21 - -	0	8	6
Bell apparatus; the bell to be moved by a contrivance connected with apparatus (30) - - - - -	0	4	6
Receiver, small, with ground top for showing the boiling of water in rarefied air, and for performing experiments 33, 34, 36 - - -	0	4	0
Filtering cup for mercury - -	0	3	9
Apparatus for showing the principle of the barometer; consisting of a barometer tube passing through a cork or plate - - - -	0	3	9
Mariotte's tube for two atmospheres -	0	7	6
A cryophorus, for showing the freezing of water by evaporation of ether in rarefied air. The cryophorus is made to pass through a plate, and is to be inserted in receiver 32 - -			
A Wedgewood-ware pan, about 5 inches diameter and 2 inches deep, with support for a large watch glass, and a bell-shaped receiver; for performing Leslie's experiment of freezing water - - - -			
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Dessin des Machines, Cours complet de. Series of 150 Plates of Mechanical Drawing, with Explanation, in Portfolio. By Robinet. Hachette, Paris.

Industrie Manufacturière, Premiers Eléments d'. First Elements of Manufacturing Industry. By P. Leguidre. 16mo. Dezobry, Paris.

Mecanique Pratique, Leçons de. Practical Lessons in Mechanics. By Arthur Morin. (Resistance of Materials.) 8vo. Hachette, Paris, 1853.

——— Premiers Eléments de. First Elements of applied Mechanics. By H. Sonnet. 2nd edition. post 3vo. Hachette, Paris, 1854.

Manufactures. Series of 20 coloured Lithographic folio Plates, representing Trades, Manufactures, and Machinery. (French.) Hachette, Paris.

Kreis-theilmaschine, Beschreibung einer, Description of a Circle-divider. By A. Oertling. 4to. With plates. Berlin, 1850.

Maschinenbestandtheilen, &c., Illustrations of the Constituent Parts of Machinery. 12 plates, printed in colours. fol. loose in cover. Vienna.

Naturselbstdruck. Controversy respecting the discovery of Nature-Printing. By A. Auer. Pamphlet. Wien (Vienna), 1853.

Portegninger till Brug ved Undervüsningen i Naandværkstegning. Examples for Instruction in Mechanical Design. 3 parts in Portfolio. Plates and Explanations. (Portfolio marked Massmann Sunday Schools.)

1. For Wheelwrights and Coachbuilders.
2. For Locksmiths.
3. For Carpenters.

By Z. Petersen. Kjobenhavn, (Copenhagen,) 1847.

Natuur-en-Werktuigkunde, Belangrijke onderwerpen uit de. Leading Subjects from Natural and Mechanical Science for Schools. Puan der Burg. 3rd edition. 16mo. Amsterdam, 1850.

Werkplaatsen Twintig Platen voorstellende de. (Industrial Operations). 20 plates representing Workshops, Tools, and Trades. fol. With Explanation. 8vo. From the German. Groningen, 1849.

CLASS XI.

APPARATUS FOR TEACHING PERSONS OF DEFICIENT INTELLECT.

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Blind Readers and their Books, or facts contained in the Sixth Report of the Fund for Embossing Books for the Blind, on W. Moon's system, with specimen. (*Sunday School Union, London.*)

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——— The Sermon on the Mount, as used at the Asylum, Bristol. oblong 8vo. 2*s.* Chapman & Hall.

——— Holy Thoughts, as used at the Asylum, Bristol. Chapman & Hall.

——— Magazine for the Blind. Nos. 3, 4, 6, to 12, 14, to 17. oblong 8vo. 6*d.* each No. Chapman & Hall, 1854–56.

Books for the Blind. Printed in Embossed Type for the Bristol Asylum.

——— Magazine for the Blind. June 1854. 6*d.* oblong 4to.

——— Elementary Geography. oblong royal 8vo. 5*s.*

——— Memoir of James Watt. oblong royal 8vo. 3*s.* J. E. Taylor, Printer.

——— The Book of the Prophet Isaiah in Embossed Type for the Use of the Blind. imp. 4to. morocco extra. (*Presented by to Her Majesty's Commissioners for the Exhibition of* 1851.)
Printed in the Blind Asylum, Glasgow, 1840.

Blind, Association for Teaching the,
Contributions of.

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Asylum, Avenue Road, Regent's Park.

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Dolezalek, A. J. Kalender fur Blinde. crown 4to. 1847.

First Lessons for the Blind, in Hughes' Raised Characters. oblong royal, 4to.

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Taylor, Rev. W. Diagrams of Euclid for Blind Persons. crown 8vo. 10*s.* 6*d.* York, 1828.

——— Mariner's Compass. Adapted for the Use of the Blind. 5*s.*

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Deaf and Dumb; their Position in Society and the Principles of their Education considered. By W. R. Scott, M.D. post 8vo. roan. (*Presented by the Author*). J. Graham, 1844.

——— First Book of Exercises in English Composition. By Dr. W. R. Scott. 12mo. 2*s.* 6*d.* (*Presented by the Author.*) Thompson, Exeter.

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DEAF AND DUMB.

Sourds-Muets. Memoir respecting the Education of Deaf-mutes. By M. Valade-Gabel, Director of the Institution for Deaf-mutes at Bourdeaux. 8vo. Pamphlet. Bourdeaux, 1839.

——— Essai sur les Mesures Législatives, &c. Essay on Measures for the Benefit of Deaf-mutes. By Valade-Remi. 8vo. Bourdeaux, 1845.

——— Deaf-mutes; Critical Studies respecting their Imperfection. By M. E. Hubert-Valleroux. 8vo. Masson, Paris, 1853.

——— Deaf-mutes; Introduction to the Medical and Philosophical Study of their Imperfection. By M. E. H. Valleroux. 8vo. Masson, Paris, 1853.

——— Institut des, à Yverdon. Institution for Deaf-mutes, at Yverdon, Canton Vaud. Papers respecting it, printed at the instance of the Council. 8vo. 2 copies. Lausanne, 1841.

——— Règlement sur l'Institut des. Regulations of the Institution for Deaf-mutes. 8vo. *Pamphlet. 2 copies.* 1847.

Aveugles, L'Institut des Jeunes. Institution for the Young Blind at Paris. By J. Guadet. 8vo. Thunot, Paris, 1850.

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15. The units of the several degrees (11) have their value represented by the place in which they stand, beginning at the right hand, as follows:—

A number meaning units only, is a unit of the first place.
..... tens second ...
..... hundreds third ...
..... thousands fourth ...
..... ten-thousands fifth ...
..... hundred-thousands sixth ...

Thus in the line of digits—6666666,
which we read, six millions, six hundred and sixty-six thousands, six hundred and sixty-six,—

every 6 has a different value: the first on the right hand means simply 6; the second has one figure on its right, and means 6 tens; the third has two figures after it, and means 6 hundreds; the fourth, having three to its right, means 6 thousands; the fifth, 6 tens of thousands; the sixth, 6 hundreds of thousands; and the last, which has six figures to its right, means 6 millions. Each of the figures will be seen to mean ten times more than that on its right.

Exercise II.

☞ In the following collections underline all the figures which mean—

(a). Tens. 575; 64; 8297; 48623; 59; 161; 3287; 15.

(b). Hundreds. 287; 35698; 4523; 889621; 3391; 178; 39625; 84721.

(c). Thousands. 2896; 5832145; 627489; 82713; 9862; 59418; 327145; 56732.

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SECTION II.—ADDITION AND SUBTRACTION.

207. *Whenever fractions have the same denominator they may be added together by adding their numerators only.*

Demonstrative Example.—$\frac{4}{9}+\frac{6}{9}+\frac{1}{9}+\frac{15}{9}=\frac{4+6+1+15}{9}=\frac{26}{9}$

The denominator is the *samer* of the parts into which the unit is divided; consequently all the fractions which have the same denominator refer to the same parts of unity. Hence $\frac{3}{7}$ and $\frac{2}{7}$ must make $\frac{5}{7}$ or $\frac{3+2}{7}$ just as truly as £3 and £2 make £5.

General Formula.—$\frac{a}{b}+\frac{c}{b}+\frac{x}{b}=\frac{a+c+x}{b}$.

208. *Observation.*—Sometimes the numbers to be added together are improper fractions or mixed numbers. If the former, they should be reduced to mixed numbers, and the whole numbers should then be added by themselves, and also the fractions by themselves.

Example.—Find the sum of $5\frac{1}{4}$, $8\frac{3}{10}$, $12\frac{1}{8}$, $2\frac{1}{8}$.

By (9) these may be added in any order, thus:—

$5\frac{1}{4}+8\frac{3}{10}+12\frac{1}{8}+2\frac{1}{8}=5+8+12+2+\frac{1}{4}+\frac{3}{10}+\frac{1}{8}+\frac{1}{8}$.

Adding together the whole numbers and bringing the fractions to a common denominator, we have—

$$27+\tfrac{10}{40}+\tfrac{12}{40}+\tfrac{5}{40}+\tfrac{5}{40}=27\tfrac{32}{40}=29\tfrac{4}{5}.$$

RULE FOR ADDITION OF FRACTIONS.

209. Reduce the fractions to a common denominator by (203), add the numerators only, and place the common denominator under the sum.

EXERCISE LXI.

1. $\frac{3}{7}+\frac{2}{7}$.
2. $\frac{3}{13}+\frac{6}{13}+\frac{4}{13}$.
3. $\frac{3}{7}+\frac{14}{15}+\frac{1}{7}$.
4. $2\frac{1}{13}+3\frac{4}{7}$.
5. $17\frac{1}{3}+6\frac{1}{3}+\frac{4}{13}$.
6. $\frac{3}{10}+\frac{13}{15}+\frac{101}{111}$.
7. $4\frac{1}{4}+6\frac{1}{7}+\frac{13}{15}$.
8. $4\frac{1}{4}+\frac{9}{7}$.
9. $\frac{9}{5}+\frac{9}{7}+\frac{1}{8}$.
10. $\frac{11}{10}+\frac{4}{100}+\frac{39}{10000}$.
11. $\frac{4}{13}+\frac{6}{17}+\frac{3}{11}$.
12. $\frac{11}{12}+2\frac{1}{8}+\frac{9}{8}$.
13. $2\frac{3}{8}+\frac{11}{12}+\frac{2}{7}$.
14. $\frac{9}{8}+14\frac{5}{8}+\frac{3}{12}$.
15. $\frac{13}{18}+\frac{1}{7}+100\frac{1}{3}$.
16. $\frac{7}{10}+10\frac{1}{4}+3\frac{1}{2}$.
17. $21\frac{3}{14}+\frac{3}{9}+1\frac{4}{11}$.
18. $12\frac{1}{6}+\frac{2}{7}+\frac{3}{13}$.

19. How much of a ship does a person own who has purchased at different times $\frac{1}{5}$, $\frac{3}{8}$, $\frac{1}{4}$, and $\frac{1}{10}$?

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PREFACE.

The following are among the characteristic features of this work:—

(1.) The distinction is everywhere broadly marked between Physical and Political Geography. The Physical condition of a country is given before the Political, because if the first is well understood, the last may be deduced as a consequence. For instance, when a child is acquainted with the position of the great coal-fields of our island, he can determine for himself the seat of its manufactures, and account for the rapid growth of Manchester and Glasgow in recent times, and the comparative decline of Norwich and Sudbury. In the order of the Physical Facts, too, those are placed first which stand in the relation of causes to other Physical Facts. Thus the mountain system always precedes the water system.

(2.) The Etymology of a great number of names is given, where such names are themselves significant. Thus, when the Pupil has learnt that *stan* is the Persian word for *land*, he knows the meaning of Hindostan, Afghanistan, Beloochistan, &c. *Afon* is given as the old British word for *water*, and it is then at once seen why we have so many river Avons in England. When the Anglo-Saxon *dun* and the Danish *fell* are said to mean *hill*, the pupil not merely understands the meaning of the names the Downs and Cross Fell, &c., but he learns the historical fact that, as the name *fell* occurs only in the *N.* of our island, the permanent conquests of the Northmen or Danes were almost confined to that point. The Spanish word *Sierra* and the Portuguese *Serra*, applied to mountains, are significant to one who knows they are only the altered form of the Latin *serra*, a saw: inasmuch as it describes the saw-like appearance of the summits of a distant range. The conquests of the Spanish and Portuguese might be traced, too, by observing the parts of the world in which Sierra and Serra are respectively used for the mountain chains.

(3.) Every fact is ranged under its proper head. *Definite* information is furnished in its proper place. The large type should be committed to memory; the notes and the smaller type should be read, and the information elicited by questions. A good deal of attention has been given to clearness of arrangement and definiteness of information, for a discursive school-book doubles the labour of the teacher, and retards the progress of the scholar.

(4.) The Exercises are unusually long. A question is put respecting *every* fact stated. A test is thus furnished to the pupil himself, by which he can ascertain whether he has acquired his assigned task. He can neither persuade himself or his teacher that he "thought he had mastered it," till he really has done so. These questions may or may not be used by the teacher in his examinations.

(5.) The pronunciation and accentuation of difficult names are given at the time of their occurrence.

The preparation of the School Geography has been to the author a long and laborious work. It might have been less so, if he could have reconciled it to his own sense of right to appropriate to himself the fruits of another's labour. But, such as it is, the plan is his own. For many of its details he is of course indebted to others; in some degree to various English and American works, but more especially to the great French geographers, Malte Brun (if we may call him French), Balbi, and Huot; and to the German ones, Ritter, Stein, and Volger.

This book will have failed in its purpose, if it does not call into exercise the reasoning faculties of those who use it, and thus render Geography a philosophical study, instead of a mere list of hard names and numbers.

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SPECIMEN PAGE OF THE SCHOOL GEOGRAPHY.

514. *Rivers.*—Po, Adigé, Arno, Tiber.

Except in the *N.*, Italy is not very well watered, nor are its rivers very serviceable for commerce. The Po rises on Mount Viso, drains the district between the Alps and Apennines, receives numerous rapid tributaries on the *N.*, and, after a rapid current, discharges its waters, by four mouths, into the Adriatic Sea.[1]

515. *Lakes.*—Garda, 180 sq. m.; Maggiore,[2] 150 sq. m.; Como, Lugano, Iseo,—all on the *S.* slope of the Alps; Perugia, Bolseno, Celano, in the Apennines.

The Italian Lakes are remarkable for their beauty: Como presents the sublimest scenery; Maggiore the prettiest. Maggiore is about 2,000 feet deep.

516. *Climate.*—Warm and delicious. Deep blue, cloudless skies. Some of the low lands uninhabited, owing to the pestilential vapours called Malaria.[3]

The Alps protect Italy from the cold northern blasts. But the mountainous districts, especially of the *N.W.*, are of course cold above a certain elevation. *S.* Italy and Sicily have almost the climate of *N.* Africa, the date-palm, aloe, and sugar-cane succeeding there; even the papyrus is found in one part of Sicily, near Syracuse. The Malaria prevails more especially along the *W.* coast of Tuscany, and the States of the Church, a distance of above 200 miles, for a breadth varying from 1 to 40 miles: and also in the *N.* of the States of the Church, between Ferrara and Bologna. These unhealthy districts are sometimes, but not always, marshes. They are called the Maremma,[4] in the *N.*; the Pontine Marshes, in the *S.*; and part of the Campagna di Roma, in the Middle. Whole districts, once populous, are now uninhabited. Many parts are, notwithstanding, very beautiful[5] and fertile, and are either used as pasture,

[1] To prevent the inundations to which it is naturally liable, it has been well banked in. But in consequence of this, the bed of the river has been so much raised by the earth, and other substances brought down in great abundance by its mountain streams, that it is, in many parts, 30 feet higher than the surrounding country. This is of service for irrigation; but should the water ever break through its banks, the consequences would be very serious. Another effect of the quantity of the earthy matter brought down by this river is, the formation of land at its mouth. Towns that were once on the sea are now quite inland. Adria,* Ravenna, for instance. The land is gaining on the Adriatic, at present, at the rate of 230 feet annually.

[2] *Maggiore* means *greater*. Garda is, however, larger.

[3] From the Italian *mala, bad,*—and *aria, air.*

[4] From *mare, the sea.* Maremma means *the land along the sea.*

[5] "There are bright scenes beneath Italian skies,
Where glowing suns their purest light diffuse,
Uncultured flowers in wild profusion rise,
And nature lavishes her warmest hues;
But trust thou not her smile, her balmy breath;
Away! her charms are but the pomp of Death!"—*Mrs. Hemans.*

* Adria was once an important port, and gave name to the *Adriatic* Sea.

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SPECIMENS OF THE SCHOOL GRAMMAR.

PURE ENGLISH AFFIXES.—VERBS.

185. Verbs are formed by the terminations *en*, *le*, *er*, *y*, and *ish*.

(1.) By *en*, as *weak-en*, *strength-en*.

EXPL.—*En*, added to Adjectives, has the force of 'to make,' as *weaken*, 'to make weak;' added to Nouns, it has the force of 'to give,' as *strengthen*, 'to give *strength* to.' So

(a) Merely *en* added.	(b) Consonant doubled.	(c) *e* dropt.
Dark-en	Glad-d-en	Whit-en

(2.) By *le*, as *hand-le*, *start-le*.

So *strag-g-le* fr. *stray*; *crumb-le* fr. *crumb*; *wrig-g-le* fr. *wry*; *wad-d-le* fr. *wade*; *shuf-f-le* fr. *shove*; *pad-d-le* fr. *pad*; *scuf-f-le* fr. *scuff*; *nib-b-le* fr. *nip*; *drib-b-le* fr. *drip*; *wrang-le* fr. *wring*; *grap-p-le* fr. *gripe*; *ram-b-le* fr. *roam*.

EXERCISE XLI.

☞ Write out twenty other Verbs in *en*, and six in *le*.

347. CAUTION.—Never use Adjectives as Adverbs. Say, *The girl speaks distinctly*, not *distinct.*

348. RULE 9. I.—An Adjective follows a Neuter Verb, when it qualifies the Noun which precedes the Verb, and not the Verb itself; as, *The fields look green.*

EXPL.—Here *green* qualifies *fields*, not *look.*

349. OBS.—Use the Adjective and not the Adverb, when you can change the Verb into the corresponding part of the Verb *to be.* So, *The fields look green*, might be, *The fields are green.*

He looks *cold*; The air felt *keen*; } but { He looks *coldly* on us. He felt the insult *keenly.*

EXERCISE CXXXII.

☞ (*) Give the more usual form of these sentences:—

Why are ye come hither? Thy servant went no whither. The king proceeded thither. Whence are ye come? He goes hence to

(*) Change the double negative into affirmative sentences:—

Do not be insincere. Let me wander not unseen. He was not unable to come; he was unwilling. Do not be undecided. He was

(*) Supply the appropriate words.—*Note.* Sometimes Adverbs are required; sometimes Adjectives:—

They would have spoken very (). If he do not come (), I shall have left. The soldiers would fight (). The violet smells (). The fire burns (). The stars shine (). The

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ADJECTIVES.

EXAMPLES.—*A* GREAT *boy, a* GOOD *horse, a* LARGE *garden, a* STRONG *man.*

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6. An Adjective is a word which expresses the quality of a Noun; as, *great, good, large.*

EXERCISE III.

☞ (*) Which are the Adjectives in these phrases?—

A rich pudding. The big table. The handsome picture. Clean boys. A high mountain. A green field. An old oak. Pretty flowers. The good father. Obedient pupils. Clear water. An old tower. A surly child. White paper. A rich man. A pretty puppy. A large lion and a little mouse. A high house and a low cottage. A playful kitten.

(*) Which are the Nouns in the above phrases?—

(*) Go over each phrase, telling the part of speech of each word:—Thus: *a*, Article; *rich*, Adjective; *pudding*, Noun.

(*) Think of some adjective to put with these words.

A () towel. The () flower pot. The () river. A () chimney. A () stick. The () tree. The () leaf. The () sun. A () star. A () boy. The () lion. A () box. A () apple. The () well. A () stone. The () ice. The () snow.

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SPECIMEN OF LOGICAL PARSING.

Warwick, who was then at Coventry, declined the proffered combat . . } Complex subordinate sentence. (Sections 67, 76.)

Warwick declined the proffered combat — Principal sentence.

Who was then at Coventry . . — Subordinate sentence.

Principal sentence.		*Subordinate sentence.*	
Warwick	subject	who	subject
declined	predicate	was	predicate
combat	object	then	adjunct of time to the predicate
proffered	adjunct to object	at Coventry	adjunct of place to the predicate

SPECIMEN OF THE YOUNG COMPOSER.

SUBJECT ENLARGED.

31. The Subject may be enlarged:—

(*a.*) By an adjective; as, (1) The *little* boy is diligent. (2) *Ripe* fruit is wholesome. (3) An *ash* stick is useful. (4) *Four thousand* trees were felled. (5) *Above four thousand* were wounded.

(*b.*) By a demonstrative pronoun; as, *That* book is valuable. *Those* houses are large.

(*c.*) By a noun in apposition; as, My cousin, *the soldier*, admires the general.

(*d.*) By a noun in the possessive; as, The *spider's*

EXPL.—The words in Italics are the adjuncts enlarging the various subjects, as *little*, *ripe*.

EXERCISE VII.

☞ (1) Enlarge the following sentences by an adjective:—

(1) The () Cicero was an orator. The () boy is happy. The () Shakspere was a dramatist.

(2) () weather is unhealthy. () milk is pleasant. () fish is good.

(3) () stockings are warm. () watches are very expensive. () fenders are strong.

(aa) Make ten sentences with adjective adjuncts (1, 2, 3):

(bb) Make twelve sentences with numeral adjuncts (4, 5); in six use *about*, *near*, *above*, *upwards of*, *less than*, or *more than*:—

(6) Make twelve sentences with the subject enlarged by a demonstrative pronoun, six singular and six plural:—

(7) Enlarge the following sentences by a noun in apposition:—

Paul () was shipwrecked. Buonaparte () was banished. () our country is powerful. Your () Mary is

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102		Cloth for a screen for the magic lantern (when wet it may be hung between the lantern and the audience as a transparent screen), 9 feet by 10½ feet, without a seam, 12*s.* 6*d.*	–	–	–
103		Astronomical sliders: a set of thirteen sliders, each 14 inches long and 4¼ inches broad, three of them movable, with a book of descriptions, in a box	1	8	–
104		The solar system, a rackwork slider, 3 inch circle in a 4 inch frame	–	15	–
105		Chromatrope, 3 inch circle, in a 4 inch frame, best style with bands	–	10	–
106		Sliders representing objects of natural history, natural phenomena, views of places, geological objects, &c., in great variety. *A list supplied gratis*	–	–	–
107	9	Parkes's portable compound microscope, with compressorium and six objects in a box	–	4	6
108		Microscope objects, twenty-four, with a book of descriptions, in a leather case	–	9	–
109	10	Rhombohedron of Iceland spar, to show double refraction	–	1	–
110	11	A pair of black glass mirrors to polarize light	–	1	6
111	12	Bundle of glass to produce polarized light with one mirror	–	2	–
112	13	Figures in mica, or in selenite (parrots, violets, dolphins, roses, &c.), for showing the effects of polarized light when held up at a certain angle between the mirror, No. 110, and the bundle of glass No. 111, *each figure* ..	–	2	–

Amount of the Optical Apparatus, 8l. 7s. 9d.

Heat.

113	1	An iron wire and a copper wire of the same length and thickness; to show the difference in the conducting power of these two metals: they are combined where they are to be heated, and have cups to hold phosphorus at the other ends	–	–	6
114	2	Faraday's apparatus to show the convection of heat; two glass vessels of about a pint capacity, connected by two glass tubes, showing the principle of heating by hot water pipes	–	3	–
115	3	Apparatus for showing the expansive force of steam; large hard glass flask, with long glass tube fitted with a cork	–	1	6

			£.	s.	d
116	4	Apparatus, consisting of an iron bar and plate gauge, to show that metals expand in all directions when heated, commonly called a pyrometer	–	4	
117	5	Apparatus to show the unequal expansion of iron and copper when heated; consisting of a plate of iron, and one of copper, riveted at the ends, with a handle. If the plates are heated in the middle over a spirit-lamp, the difference of expansion becomes visible	–	2	
118		Apparatus for breaking a bar of iron ¼ inch diameter, by the force produced by the contraction of another bar of iron heated to redness, and rapidly cooled by applying cold water. With twelve bars for breaking	–	7	
119	6	Chemical thermometer, enclosed in glass, for immersion in corrosive liquids, scale from – 40° to + 350° Fahrenheit, in a pasteboard case	–	3	
120		Model thermometer, to illustrate the expansion of liquids by heat, 16 ounce flask, with 36 inch tube, scale printed on white wood, 30 inches long, comprehending 100°, from 60° to 160° Fahrenheit. The apparatus is to be filled at 60°, up to the mark 60°, with water coloured blue by sulphate of indigo, and is then to be heated over a lamp; the instrument being so placed, that the rise of the blue water can be seen by the pupils	–	3	
121	7	Glass spirit lamp, with cap and wick	–	1	
122		Wood naphtha, for burning in the lamp, one pint in a stoppered glass bottle	–	2	
123	8	German hard glass retort, with steam-pipe attached, for showing the production of a vacuum by the condensation of steam. The steam-pipe is to dip into water contained in a glass beaker, and when the air is entirely expelled from the retort, the lamp is to be removed, and the water allowed to go back and fill the retort	–	–	
124	9	Flask of hard German glass, with smooth mouth and cork, to show that water boils at a reduced temperature in vacuo	–	–	
125	10	Wollaston's model steam-engine	–	3	
126	11	Concave reflector, silvered copper, burnished, 6 inches diameter, with rod, foot, and thumb-screws. See Optics, No. 93.	–	4	
127	12	Burning glass. See Optics, No. 94. No. 1 of the set ..	–	–	
128	13	Apparatus for showing the principle of ventilation. See Chemistry, No. 206.	–	–	
129	14	Air thermometer, with graduated scale	–	3	
130	15	Fire-syringe for producing fire by the rapid compression of air, with German tinder	–	3	
131	16	Pulse glass, or philosophical hammer, consisting of a tube with two bulbs, large size, for showing the ebullition of spirits in vacuo, on applying the heat of the hand; mounted ou a stained wooden support	–	3	
132	17	A hygrometer.	–	–	

			£.	s.	d.
133	18	Three tin canisters, 5 inch cubes, with necks for thermometers; one bright, one black, one with two faces black, to show the difference in the radiating power of the different surfaces. If a black and a bright surface of cubes containing water of the same temperature are opposed to the two bulbs of No. 131, the difference in effect is immediately visible	–	4	–
134	19	Ether, 2 ounces in a stoppered glass bottle	–	1	3
135		Long thin glass tube, in which water may be boiled over ice; to show that heat does not descend in liquids ..	–	–	6

Amount of Apparatus for Experiments on Heat, 2l. 11s. 9d.

Magnetism.

136	1	Pair of 8-inch bar magnets, with keepers; will carry 1½ lb.	–	3	6
137	2	Horse-shoe magnet, 10-inch, with keeper; will carry 10 lb.	–	4	6
138	3	Clean iron filings, 4 ounces in a bottle	–	–	6
139	4	Magnetic swan, in a box	–	-	8
140		Pair of magnetic fish, in box	–	1	6
41		The mouse house	–	3	–
42	5	Twelve pieces of soft polished iron rod, for showing the law of magnetic distribution in a bar magnet; 6 of ½ inch, 6 of ¼ inch in length; all ¼ inch in diameter; in a bottle	–	3	–
43	8	Soft iron bar, 8 inches long, to show magnetic induction ..	–	–	9
44		Box containing the following small magnetic and electric apparatus, most of them adapted to the gutta percha insulating stands, No. 157, 158. These instruments are described in Tate's 'Electricity,' and Tate's 'Little Philosopher'	–	6	–

1. Six stout sewing needles.
2. Six knitting needles.
3. Magnetic knitting needle suspended by a thread.
4. Slight brass beam with magnetized sewing needle and counterpoise.
5. Unmagnetized needle, fitted for showing the magnetic dip.
6. Magnetic compass needle.
7. Brass electric needle.
8. Gutta percha beam to show electric attraction, when mounted on an insulating stand, No. 157.
9. Pair of pith balls, mounted, to serve as an electrometer; to be suspended by a pin stuck in the edge of the insulating stand, No. 158.
10. Tate's revolving electroscope, gutta percha beam with two gilt pith balls; to be suspended from the needle point of the gutta percha insulating stand, No. 157.
11. Six pith balls.
12. Slip of cardboard to be mounted on an insulating stand, 157, to show electrical attraction.

Amount of the Magnetic Apparatus, 1l. 3s. 5d.

Electricity.

			£.	s.	d.
145	1	Stout rod of sealing-wax, 12 inches long	–	2	–
146	3	Six slips of thin gutta percha for showing electrical attraction and repulsion, 9 inches by 2 inches	–	–	6
147	4	Two sheets of gutta percha, size 18 inches by 12 inches, for generating electricity	–	2	–
148		Pair of fur rubbers for exciting electricity in the sheets of gutta percha	–	2	6
149	5	Tea-tray, japanned tin, to be used as a prime conductor of electricity, about 16 inches by 12 inches	–	1	–
150	6	Electrophorus, consisting of a circular tin disc, 10½ inches diameter, with wired edge, with stout 10-inch gutta percha handle, to be used with one of the sheets of gutta percha as a base instead of a plate of pitch	–	2	6
151	7	Pair of tin plate discs, with wired edges, 5 inches diameter, to be supported on the table tops of the insulating stands, No. 158	–	–	8
152	8	Roll of tin foil	–	–	6
153		Six sticks of shellac for making delicate electroscopes, as recommended in Tate's 'Little Philosopher'	–	–	6
154		Book of Dutch gold	–	–	3
155	10	Leyden jar, pint size	–	3	–
156	11	Insulated electric conductor, brass rod, with 3 brass balls and a movable fork, with gutta percha pillar on wooden foot, 10 inches high, to be charged by means of the sheet of gutta percha, No. 147, and the fur rubber ..	–	6	–
157		Two gutta percha insulating stands, about 5 inches high, with needle tips	–	1	6
158		Two ditto, with flat circular table tops	–	1	6
		These stands are for supporting the small magnetic and electric apparatus contained in the box, No. 144. Also No. 151, &c.			

Amount of the Electrical Apparatus, 1l. 4s. 5d.

Meteorology.

			£.	s.	d.
159	1	Rain gauge	–	14	–
160	2	Mason's hygrometer	–	8	6
161	3	Barometer, with vernier and thermometer	2	2	–
162	4	Six's self-registering thermometer	–	12	6

Amount of Meteorological Apparatus, 3l. 17s.

Electricity, *List* 2.

			£.	s.	d.
163	1	Plate electrical machine, 16-inch plate, mounted in a solid mahogany frame, with massive brass conductor ..	3	13	6
164		Box of amalgam	–	1	–
165	2	Insulating stool, polished wooden top, 13 by 11 inches, four massive glass legs	–	5	–
166	3	Jointed discharger, with glass handle	–	4	3
167	4	Battery of six Leyden jars, quart size, in a box with a cover	1	18	–
168	5	Quadrant electrometer, 4s. 6d.	–	–	–

			£.	s.	d.
169	6	Head of hair, for showing electrical repulsion when placed on the conductor of the machine	–	2	6
170		Glass plume, for the same experiment	–	2	6
171	7	A dozen pith balls	–	–	8
172		Strong pointed brass rod adapted to the machine and intended to electrify the inside of a glass beaker, which is then to be placed over the pith balls, to set them in motion	–	–	6
173	8	Set of three electrical bells, mounted	–	4	6
174	9	Water bucket, to show electrified water	–	2	–
175	10	Electrical swan, to swim in water	–	1	6
176	11	Electrical spider, to be suspended between two Leyden jars differently electrified	–	–	6
177	12	Aurora Borealis apparatus, consisting of a brass plate with three spikes to screw into the plate of the air-pump, and another ground brass-plate with three spikes, adapted to the top of the cylinder of the Guinea and feather experiment, pneumatic apparatus, No. 57	–	7	–
178	13	Whirl or fly-wheel	–	2	6
179	14	Electrical orrery for showing the revolution of the moon round the earth and of the earth and moon round the sun	–	5	6
180	15	The electrical inclined plane, 12*s.*	–	–	–
181	16	The electrical pendulum	–	–	–
182	17	Thunder house, for showing the effects of a stroke of lightning	–	4	6
183	18	The electrical bomb, 4*s.*	–	–	–
184	19	Luminous spangles	–	–	–
185	20	The hand spiral, or luminous tube	–	2	6
186	21	Electrical pistol for exploding the oxyhydrogen gas ..	–	4	–
187		Six yards of brass chain	–	1	9

Amount of the Electrical Apparatus, List 2, 8*l.* 4*s.* 2*d.*

Galvanism.

188	1	Smee's galvanic battery, six cells in separate compartments of a stoneware trough, mounted in mahogany, with rack-work motion to raise the metals from the acids when not in action, and an arrangement for combining the plates either for quantity or intensity; the platinized silver in each cell measures about 3 inches by 4½ inches ..	2	12	6
189	2	Apparatus for decomposing water and collecting the gases separately	–	2	6
190	3	Apparatus for decomposing neutral salts, V tube with platinum electrodes	–	4	6
191	4	Charcoal holder insulated by a wooden foot; one of the holders has a sliding motion	–	4	6
192		Pair of solid charcoal points suited for No. 191 ..	–	1	6
193	5	Fine platinum wire for ignition, one yard	–	–	6
194	6	Electro-magnet and keeper, a single coil; will carry 100 lbs.	–	10	–

			£.	s.	d.
195	7	Ritchie's rotating experiment	–	4	–
196	8	Oersted's electro-magnetic experiment	–	7	–
197		Telegraph model, with table of signs	–	12	–
198		A large apparatus of this description, with a 6-inch needle; for use at lectures, 18*s*.	–	–	–
199		A reverser, for use with the electric telegraph model, and other galvanic experiments, 18*s*.	–	–	–
200		Coil to give shocks	–	13	–

Amount of the Galvanic Apparatus, 5*l*. 12*s*.

Chemical Apparatus, *List* 1.

201	1	Wide-mouthed bottle, six pints, with glass stopper ..	–	3	–
202	2	Evaporating basin, Berlin semi-porcelain, 6 inches diameter	–	–	7
203	3	Six conical test glasses on foot, with spout	–	1	6
204	4	Two wire candle holders, with wax candles, for trying the combustibility of gases	–	–	6
205	4	Small candle-holder to place within a glass cylinder ..	–	–	1
206		Apparatus for explaining ventilation: put the candle, No. 205, into the large bottle, No. 201, apply a cork, having through it a short glass tube and a long one, the latter movable up and down, so as to supply air to any part of the bottle	–	–	–
207	5	Cup with metal stand, for holding phosphorus, to burn in common air, under the inverted bottle, No. 201 ..	–	–	4
208	6	Fine wire-gauze of 50 meshes to the inch, a piece 8 inches square; to explain the principle of the safety-lamp ..	–	1	–
209	7	Three hard glass open tubes, 6 inches long, ½ inch in diameter, to explain the nature of flame: the end of a tube is put into a candle-flame, and the gas so withdrawn is burnt at the other (upper) end	–	–	3
210	8	Six test tubes, hard German glass, 6 inches long, ¾ inch diameter	–	–	1
211	9	Flexible metal pipe, 18 inches long, for conveying air into vessels, inverted in water	–	–	4
212	10	Six bottles, 4-ounce, wide mouthed, corked	–	1	
213		Two bottles, pint, wide mouthed, stoppered	–	1	
214		Circular glass plate, 4 inches diameter	–	–	
215		Circular glass plate, 6 inches diameter	–	–	
216	11	Two dozen bottles, 3 ounce, narrow mouth, stoppered, for test solutions		6	
217	12	Two German hard glass flasks, flat bottoms, and phial lips, 8 ounce size	–	–	
	13	Support for vessels with round bottoms. See No. 335.	–	–	
218	14	Glass spirit lamp, with cap and wick-holder	–	1	
219	15	Set of ten Bohemian glass beakers, to contain liquids or gases	–	5	
220	16	German glass gas bottle, with long tube of hard glass fitted with a cork; to show the philosophical (hydrogen) candle	–	1	

			£.	s.	d.
221		Long glass tube, open at both ends, for producing musical sounds, when held over the hydrogen gas flame, produced by No. 220	–	–	6
222	17	Glass jar, on foot, 12 inches high, 2 inches diameter ..	–	1	6
223		Glass jar, on foot, 10 inches high, 2 inches diameter ..	–	1	–
224	18	Glass cylinder, open at both ends, 10 inches long, 2 inches diameter	–	–	4

225

Chemical Preparations.

All in glass bottles, with glass stoppers where necessary.

1	Sulphuric acid, commercial, 3 lbs.	–	1	4
2	Hydrochloric acid, commercial, ½ lb.	–	–	6
3	Nitric acid, commercial, ½ lb.	–	–	9
4	Oxalic acid, commercial, 1 oz.	–	–	5
5	Tartaric acid, commercial, 1 oz.	–	–	6
6	Alcohol, 6 ozs.	–	2	–
7	Alum, 4 ozs.	–	–	4
8	Ammonia, 8 ozs.	–	1	–
9	Ammonia, carbonate, 2 ozs.	–	–	5
10	Camphor, 1 oz.	–	–	5
11	Charcoal sticks and powder, 4 ozs.	–	–	6
12	Cochineal, 1 oz	–	–	9
13	Copper turnings, 2 ozs.	–	1	4
14	Copper, sulphate, 4 ozs.	–	–	7
15	Copper, nitrate, 1 oz.	–	–	4
16	Gall nuts, in powder, 1 oz.	–	–	4
17	Indigo, 1 oz.	–	–	9
18	Iron, sulphuret, 6 ozs.	–	–	7
19	Iron, proto sulphate, 4 ozs.	–	–	6
20	Iodine, ½ oz.	–	1	2
21	Lead, metallic, 1 oz.	–	–	5
22	Lead, litharge, 1 oz.	–	–	3
23	Lead, acetate, 4 ozs.	–	–	8
24	Lead ore, galena, 2 ozs.	–	–	4
25	Lime, caustic, 2 ozs.	–	–	4
26	Lime, carbonate, 4 ozs.	–	–	5
27	Lime, chloride, 4 ozs.	–	–	4
28	Litmus, ½ oz.	–	–	4
29	Mercury, ½ lb.	–	1	–
30	Mercury, perchloride, ½ oz.	–	–	5
31	Manganese, black oxide, 1 lb.	–	–	7
32	Olive oil, 2 ozs.	–	–	5
33	Potassium, metallic, 6 grains	–	1	–
34	Potassium, iodide, 1 oz.	–	1	9
35	Potash, caustic, partially purified, ½ oz.	–	–	6
36	Potash, carbonate, partially purified, 2 ozs.	–	–	5
37	Potash, chlorate, ½ lb.	–	1	4
38	Potash, red chromate, 1 oz.	–	–	4
39	Potash, yellow chromate, 1 oz.	–	–	6
40	Potash, nitrate, saltpetre, 4 ozs.	–	–	6

		£.	s.	d.
41	Potash, yellow, prussiate, 1 oz.	–	–	5
42	Phosphorus, 1 oz.	–	–	9
43	Sodium, metallic, 6 grains	–	–	9
44	Soda, carbonate, 2 ozs.	–	–	3
45	Soda, sulphate, 4 ozs.	–	–	5
46	Stourbridge clay, ½ lb.	–	–	6
47	Sulphur, roll, 4 ozs.	–	–	6
48	Sulphur, sublimed, 2 ozs.	–	–	4
49	Tin foil, 2 ozs.	–	–	8
50	Zinc cuttings, ½ lb.	–	–	6
51	Naphtha for burning, 1 pint	–	2	3

Amount of Chemical Apparatus and Preparations, List 1, 3*l.* 2*s.* 8*d.*

Chemical Apparatus, *List* 2.

226	1	Tate's pneumatic trough and hydraulic blowpipe for use in glass-blowing, combined. The trough 16 inches by 12 inches, with a movable shelf for collecting gas, and a cover: japanned tinplate	–	12	6
227		Griffin's stoneware pneumatic trough, 11 inches diameter, with beehive shelf	–	2	4
228	2	Glass-blower's lamp, Danger's pattern	–	3	6
229		Iron-rod in handle for working glass	–	–	6
230	3	Gasholder, 18 inches high, 10½ inches diameter, contents 1,500 cubic inches, with stopcock, large funnel on an 18-inch tube, 3 feet of vulcanised tubing to deliver the gas, wide-gauge pipe; graduated into spaces of 50 cubic inches. There is an opening in the side of the gasholder near the bottom, to be used when the gasholder is employed as an aspirator or for hydraulic experiments	1	6	–
231	3	Stopcock to use with the gasholder for hydraulic experiments	–	3	–
232	4	Three feet vulcanised rubber tubing ½ inch bore ..	–	3	–
		Three feet „ „ ¼ inch bore ..	–	2	6
		Fill the gasholder with water and put it on a high table. Fix the tall funnel and fill it also with water. Connect the stopcock 231 with the two tubes 232, joining these in the middle by inserting a small piece of glass tube; at the end of the tube fix a fountain-jet, namely, a glass jet or that belonging to the air-pump, and place the jet near the ground in a vertical position. If the stopcocks are now opened, a fountain will be produced.			
233	5	Two stopcocks, double male screws	–	5	–
234		One stopcock, male and female	–	2	6
235		One connector, double male	–	1	–
236		One connector, double female	–	1	–
237		One connector, male and female	–	1	–
238	6	Set of 6 stoneware trays for gas jars	–	1	2
239	7	Gas jar 12 inches long, 2 inches diameter	–	1	–
240		Gas jar, 12 inches by 2 inches, graduated into 30 cubic inches	–	2	6

			£.	s.	d.
141		Gas receiver or deflagrating jar, with wide mouth and glass stopper, 9 inches high by 5 inches diameter ..	–	3	6
142		Gas receiver similar to the last, 11 inches high and 6 inches diameter	–	4	–
43	8	Three wide-mouthed stoppered quart-bottles for collecting chlorine gas, &c.	–	3	–
44	9	Large globe for burning phosphorus in oxygen gas ..	–	3	–
45	10	Metal cup on iron foot to contain the phosphorus for the same experiment	–	1	3
46		Flat earthenware pan 12 inches diameter, for use in the same experiment	–	1	4
47		Two brass deflagrating spoons, with brass flanges for adjusting the length of the spoon to the receiver it is to be used with	–	2	6
8		Hank of iron wire for burning in oxygen gas	–	–	6
9	11	Tall cylindrical receiver with brass cap on the neck, and female screw, 15 inches high by 5 inches diameter ..	–	5	–
0		Glass globe with cap and female screw. By means of the stopcocks and connector No. 233 and 236, the globe can be connected with the receiver No. 249, for the transfer of gases, &c.	–	3	6
1	12	Gas burner, for use in places where common gas can be obtained for heating. Brass cylinder, gauze top, iron foot, with an arrangement for blowpipe experiments ..	–	6	6
2	13	Blowpipe jet for directing oxygen gas from the bag, 256, upon burning metals, &c.	–	1	4
3		Blowpipe apparatus. The set in a box, 16*s.* 6*d.*:—			
		a Blowpipe, japanned tin with brass nozzle ..	–	–	8
		b Blowpipe lamp on wooden support	–	1	8
		c Tongs for trimming the lamp	–	–	6
		d Two platinum wires for supporting assays ..	–	–	4
		e Two slips of platinum foil	–	1	–
		f Piece of copper-wire for testing for chlorine ..	–	–	2
		g Tongs with platinum points	–	3	6
		h Bottle of borax	–	–	4
		k Bottle of microcosmic salt	–	–	4
		l Bottle of carbonate of soda	–	–	4
		m Bottle of solution of cobalt	–	1	–
		n Albata spatula with spoon end	–	–	3
		o Two porcelain blowpipe crucibles	–	–	6
		p Three dozen charcoal supports	–	–	4
		q Two wire handles for the crucibles	–	–	1
		r Blowpipe hammer	–	1	2
		s Blowpipe anvil	–	1	4
		t Pestle and mortar	–	–	6
		u One dozen hard glass tubes, 6 inches long, open at both ends	–	–	6
		v One dozen hard glass tubes closed at one end ..	–	–	6
		Box to hold blowpipe apparatus	–	1	6
.	14	Balloon, 9 inches diameter, to ascend with hydrogen gas or dry coal gas	–	1	3

			£.	s.	d.
255	15	Large bladder with wooden mouthpiece; for use in inhaling nitrous oxide gas	–	2	–
256	16	Gas-bag of Macintosh's waterproof cloth, with brass ferrule and female screw to fit the stopcock, No. 233 ..	–	6	6
257	17	Brass tobacco-pipe for making hydrogen gas bubbles, to be used with the gas-bag, No. 256	–	2	–
258	18	Hydrogen gas bottle, pint size, with 24-inch funnel with long delivery tube, and flexible connector	–	2	6
259	19	Hard Bohemian glass tube retort, for preparing oxygen gas, with large delivery tube	–	1	–
260		Green glass oxygen gas retort, of larger size, for use in filling the gasholder	–	2	–
261		Gas bottle for preparing carbonic acid, sulphuretted hydrogen, and other gases that do not require heat ..	–	1	8
262		Bottle for preparing gases that require heat, 16 ounce flask, with long delivery tube	–	1	6
263		Support for the oxygen tube retort while being heated ..	–	1	3
264		Crook of tin adapted to that support, and intended to hold short wide tubes for deflagrations in fused nitre, &c., as described in Griffin's Chemical Recreations	–	–	2
265		Gas condenser, or bent glass tube, substitute for Woulfi's apparatus in the distillation of small quantities of liquids	–	1	3
266	20	Glass retorts, plain, 1 of each size, 5, 10, 20, and 40 ounces capacity	–	2	1
267		Glass retorts, stoppered, 1 of each size, 10 and 20 ounces capacity	–	2	8
		Globular receivers, plain, 1 of each size, 8, 16, and 24 ounces capacity	–	1	3
		Adapters to connect retorts with receivers, 8 ounces and 12 ounces	–	1	2
268		Two glass funnels for filtration, 4 inches diameter ..	–	1	4
269		Two „ „ 3 „	–	–	6
270		Two „ „ 2 „	–	–	4
		Circular filtering papers, cut to suit the different sizes of funnels, in japanned tin boxes—			
271		100 Filters for the 4 inch funnel, 1*s.*, box 1*s.*	–	2	–
272		100 „ 3 „ 9*d.* } box 9*d.*	–	1	11
273		100 „ 2 „ 5*d.* }			
274		Funnel holder, black wood, with movable arm ..	–	1	2
275	21	Argand oil lamp, japanned tin plate, with copper chimney	–	6	6
276		Griffin's lamp furnace, consisting of nineteen articles, viz:— Cylinder with air-holes, water bath, glass spirit lamp, evaporating basin, oil lamp, dome for flasks, 4 extra cylinders, dome for retorts, sand bath, support for tubes, pan 9 inches diameter, trellis top, pair of tops with holes, pair of hot plates	–	8	–
277	22	Berlin porcelain evaporating basins, one of each size, 2½, 3½, 4, 4½, 7½, and 8½ inches diameter	–	6	–
278		Two Berlin porcelain basins, 2 inch, with handle ..	–	–	6
279		Two dozen bottles, with narrow mouths, for test solutions, 6 ounce, with glass stoppers	–	8	–

		£.	s.	d.
	Six German test tubes, 5 inches by ½ inch	–	–	9
	„ „ 6 „ 1 „	–	1	–
	„ „ 3 „ 1 „	–	–	9
	Six conical test glasses, 1 ounce size, on foot, with spout ..	–	1	6
	Six cylindrical test glasses, 8 ounces size, on foot ..	–	1	9
	Brush for cleaning test tubes	–	–	3
	Wire clip, with handle, for holding hot test tubes ..	–	–	5
	Two dozen glass stirrers, assorted, viz.:—twelve 3 inch, six 6 inch, three 9 inch, three 12 inch	–	1	–
	Six Bohemian watch glasses for evaporations	–	–	9
	Vulcanized india-rubber tube, for connectors, one foot each of ¼, ½, and ¾ inch bore	–	2	11
	Set of chemical labels, small size, on a sheet	–	–	4
	Another set, large size, in a book	–	1	–
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	„ 12 inches high, 1½ inches diameter	–	–	9
	„ 16 inches high, 1⅞ inches diameter	–	1	3
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342 Chemical Preparations, *List* 2.

The price includes the bottles, which have glass stoppers where necessary.

1. Sulphuric acid, pure, ½ lb.	–	1	–
2. Hydrochloric acid, pure, ½ lb.	–	–	9
3. Nitric acid, pure, ½ lb.	–	1	–
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6. Ammonia, nitrate, 6 oz.	–	1	6
7. Antimony, metallic, 1 oz.	–	–	3
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9. Baryta, nitrate, 1 oz.	–	–	3
10. Baryta, muriate ½ oz.	–	–	3
11. Bismuth 1 oz.	–	–	7
12. Calcium, chloride, 2 oz.	–	–	8
13. Calcium, fluoride, 2 oz.	–	–	3
14. Cobalt, nitrate, ½ oz.	–	1	–
15. Cobalt, muriate, ½ oz.	–	1	10
16. Copper leaf, 24 leaves	–	–	3
17. Copper, sulphate, pure, 2 oz.	–	–	6
18. Gold leaf, half book, 25 leaves	–	–	10
19. Iron, perchloride, 1 oz.	–	1	2
20. Iron, sulphuret, 2 oz.	–	–	3
21. Iron, protosulphate, pure, 2 oz.	–	–	6
22. Iron, persulphate, pure, 1 oz.	–	–	6
23. Lead, acetate, pure, 2 oz.	–	–	7
24. Lead, red oxide, 1 oz.	–	–	3
25. Lime, caustic, pure, 2 oz.	–	–	4

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26. Lycopodium, 1 oz.	–
27. Magnesia, calcined, 1 oz.	–
28. Magnesia, carbonate, 2 oz.	–
29. Magnesia, sulphate, 2 oz.	–
30. Potash, pure, ½ oz.	–
31. Potash, bitartrate, 2 oz.	–
32. Potash, carbonate, pure, 2 oz.	–
33. Potash, red prussiate, ½ oz.	–
34. Phosphorus, amorphous, ½ oz.	–
35. Silver leaf, 25 small leaves	–
36. Silver, nitrate, 2 drachms	–
37. Soda, borate, 2 oz.	–
38. Soda, bicarbonate, 2 oz.	–
39. Soda, nitrate, 2 oz.	–
40. Strontia, nitrate, ½ oz.	–
41. Tin, metallic, 2 oz.	–
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AVER'NUS. A lake of Campania, also known as *Averna* and *Aornos*. It is said to have obtained its name from the extreme unwholesomeness of its waters, the exhalations which proved fatal to *birds* flying over them. The word is derived from the Greek *a*, = *not*, and *ornis*, = *a bird*. Its modern name is *Lago d'Averno*. All stagnant lakes, the waters of which prove offensive, have from this been termed *Averni*.

AVON. A name given to various rivers in Great BRITAIN. It is a Celtic word, signifying *water* or a *river*; and this explains why we have so many streams thus named. In ENGLAND and SCOTLAND there are no fewer than nine rivers of this appellation, being distinguished from each other, however, by some specific term. For instance, that on which BRISTOL stands is called the *Bristol Avon*; similarly, the Avon which runs by Salisbury is distinguished as the *Salisbury Avon*; and so on.

BEDFORD. Formerly written *Bedicanford*; from the Anglo-Saxon *bedician*, = *to fortify*, and *ford*, from *faran*, = *to go*. It thus signifies *the ford situated in proximity to the fortress*.

BERK'SHIRE should be written Barkshire, or, at least, pronounced so, because it is a contraction of *bare-oak-shire*; or the SHIRE, or *county*, in part of which (viz., Windsor Forest) meetings were formerly held at a *bare* or *polled oak*.

LONDON (*pron.* Lun'dun). Numerous conjectu been made with regard to the etymology an ing of this name. We may rest assured, h that it is of British, and not of Roman origi of the most important etymologies that ha advanced are these: (1.) that which deduces *lin*, or *lyn*, = *a deep pool*, and *dinas*, = *a town* (see LINCOLN); and (2.) that which, with claim to attention, derives it from *lhong*, = *a dun* or *thun*, which is equivalent to the Saxo *town*; thus meaning the *town of ships*, or, *for ships*, for there is every probability that was greatly frequented by vessels in conseq its excellent position, being in the centre, as as possible, of the land hemisphere: a fac with numerous others arising out of its posit made London the first city in the world.

SARDIN'IA. The largest island in the MED NEAN, being 140 miles long by 60 broad. first called *Sandaliotis* (or *Ichnusa*, from th *ichnos*) because of its resemblance to the hu or *sandal*; and, more subsequently, *Sardin Sardus* (a son of Hercules), who settled her colony from LIBYA.

TASMANIA (*pron.* Tazmania). Another name DIEMAN'S Land; and so called because dis in 1642, by Abel *Tasman*, who was a Dutchm

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Specimen *of the* GRADUS.

Gratia, æ. 1. *The Grace, one of the Graces, by name Thălĭa, Euphrŏsўnē, and Aglaïē.*—2. *Grace.*—3. *Thanks, gratitude.*—4. *Affection.*—5. *A favour, a benefit.*——1. *Grātia* cum nymphis gĕmĭnisque sŏrōrĭbus audet Dūcĕre nūda chŏros. Hor. 4. 7. 5. Junctæque nymphis *Grātiæ* dēcentes Alterno terram quătiunt pĕde.—2. Et dĕcor et linguæ *grātia* ficta tuæ. Ov. Her. 12. 12.—3. *Grātia* Dis menti quo lĭbet īre lĭcet. Ov. Ep. e P. 3. 5. 48.—4. Non hospĕs ab hospĭte tutus, Non sŏcer a gĕnĕro, frātrum quŏque *grātia* rāra est. Ov. Met. 1. 145.—5. Nec nulla intĕrea est ĭnărātæ *grātia* terræ.

rūmor, ōris, masc. *Rumour, report.* Dīdĭtur hic sŭbĭto Trōjāna per agmina *rumor*. V. Æn. 7. 144. SYN. fāma (*no pl.*), q. v. PHR. Rūmōresque sĕrit vărios. V. Vărĭisque ăcuunt rūmōrĭbus īras. V. Rūmōre accensus ămāro. V. Magna quĭdem dē tē rūmor præcōnia fēcit. Ov. Fāma Pĕlasgiădas sŭbĭto pervēnit ad urbes Dēcŏlor, et factīs infĭtianda tuis. Ov. Rūmor ĭnīquus Læsĕrat, et falsi crīmĭnis acta rea est. Ov. Quisquis is est, mĕmŏri rūmōrem vŏce rĕferre Et fĭĕri fāmæ parsque grădusque potest. Ov.

Specimen *of the* APPENDIX.

Grātia. 1. *The Grace, one of the* 2. *Grace, elegance.* 3. *Gratitude, th* EP. 1. *Triple*, terna, tergĕmĭna, –Ĭcis. *United*, juncta. *Naked*, n 1, 2. *Beautiful*, dĕcens, dĕcōra, sp ēgrĕgia. *Fair*, candĭda. *Modest*, pŭdĭca, casta.—*Simple*, simplex –Ĭci *Just*, justa, æqua, mĕrĭta, dēbĭta, *Willing*, lĭbens. *Pious*, pia. *Lasting*, pĕrennis, perpĕtua. *Mindful*, mĕmo *during after the action*, sŭperstes –ĭti

rūmor, ōris. *Report.*—EP. *Talkative*, *True, certain*, vērus, certus. *To be* fĭdus, fĭdēlis. *Vain*, vānus, ĭnānis. *doring*, vāgus. *Doubtful*, dūbius. *Of d origin*, incertus. *New*, nŏvus, rĕcens. *V* vārius. *Discreditable*, indĕcōrus, *Wicked*, ĭnīquus.

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*** This work has been most favourably noticed by the London and pr press : space will allow us at present to refer to but two reviews.

The PHILOSOPHICAL MAGAZINE for December 1855 closes a long notice first of these books as follows :—

"In conclusion, we wish Mr. Hughes every success ; his first book is a good one, and we hope his future books will be better. We have given unusual space to our review because we deem his project an important one, and because it is almost the first of its kind in which the principle l recognised, that only the ablest men can the elements of a science successfully, and task is in every respect worthy of their time."

In an article on *Educational Reform* in the DUBLIN UNIVERSITY MAGAZI October 1855, the work is criticised at considerable length : we extract the fol passages :—

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We were present, not long ago, at an examination, by one of H. M. Inspectors, of pupil-teachers in their third year. One of the papers was on the Liturgy: this paper was answered the worst of all, though the questions were by no means difficult. The Inspector remarked that he generally found it to be the case, that the greatest ignorance prevailed in schools, and even among masters and mistresses, about the Prayer-Book: few were really acquainted with its contents; fewer still with the changes that have taken place before it has been brought to its present form. Yet, let any one make himself acquainted with the history of this book since the first moulding of its offices into something like their present shape, and he will know that, to look at it merely in connexion with the history of England for the last three hundred years, it has borne no inconsiderable part in causing the changes, revolutions, rebellions, which have taken place during that period. It was for the Book of Common Prayer, as containing the form of worship and the exposition of faith, that the great martyrs of our Reformation cheerfully suffered death: it was this book that they clasped to their bosoms when the flames surrounded them. It was the attempt to introduce this book, or, at least, one like it, that began a rebellion in Scotland against King Charles I. It was to maintain this book in its integrity in England that King Charles became a martyr. In more peaceful times its influence is no less felt or seen. "The Church is in danger" was often a party cry for political purposes, which could overthrow a Ministry or stir up a mob to burn dissenting meeting-houses. These results showed how deep in the heart of the Englishman is his love or his hatred for the Prayer-Book.

Now, looking at this fact in a secular point of view, merely as connected with the history of our country, we cannot but be struck at the importance and the influence it has exercised. This fact alone must show how necessary a knowledge for a teacher is the history of our Prayer-Book. But when we go deeper, and begin to consider our Liturgy in a religious point of view; when we consider it as an outward means of approach of the soul to its God, of the creature to the Creator, it assumes a position in a Christian's eye far above the quarrels and disputes of this lower world. The remark of the Inspector throws a serious rebuke on our elementary and their teachers. Ignorance of this book a to a neglect of that command of the apostle ready to give an answer to every man that you a reason of the hope that is in you."

There can be little doubt but that the grea why the Prayer-Book is so little taught, is there is wanting a really good manual of inst A teacher ought not to have to search throu books as Wheatly, Palmer, Comber, and who have written on this subject; he ought a manual of his own, compiled for him fro sources. The book whose title is at the head article proposes to supply this deficiency: it pr in the first five chapters, to give a history compilation of the Prayer-Book; the other eight chapters are expositions of the variou of the book, from the Calendar to the Articl we are able to say that in the short space of 1 it gives an excellent summary, and affords of valuable information: the author most proceeds by giving extracts from the great on the Liturgy, rather than his own words those authors speak briefly and to the point rest he gives an epitome of what they have

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"They (the bishops in Edward VIth's adopted those formularies which had be established in this country, merely freein from errors which had crept in during an i and superstitious age, and retaining whate sanctioned by Holy Scripture and the p usage of the Church."—Page 4.

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"In short, the whole Liturgy was brou the same condition as it now stands, unanimously agreed to by Convocation in D 1661. It was sanctioned by Parliament March following: and the 16th of May, 16 ceived the royal assent."—Page 11.

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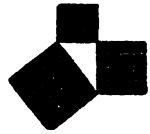
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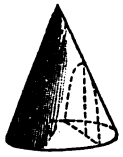
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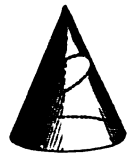
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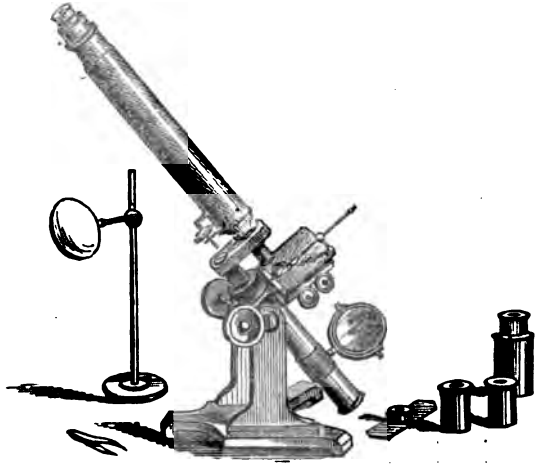


Fig. 1.

MICROSCOPES.

Achromatic Microscope with double rackwork stage, fine adjustment, and draw tube, two eye-pieces, two achromatic powers, condenser for opaque objects, insect box, well-glass for water animalculæ, stage forceps, and tweezers, packed in french-polished Mahogany Cabinet Case, fig. 1. . 10 10 0

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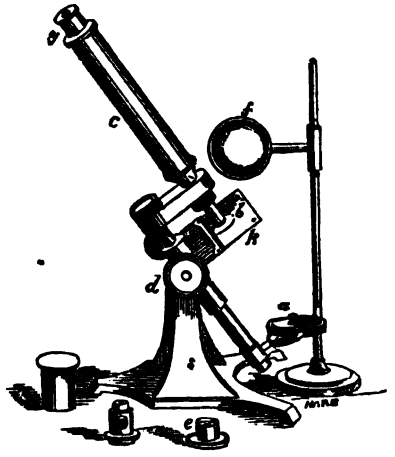


Fig. 2.

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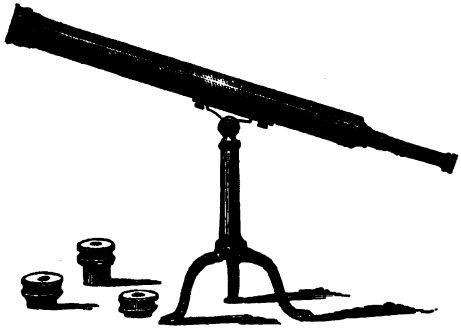


Fig. 3.

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Thirty-inch Astronomical Telescope, mounted on brass tripod stand, with three eye-pieces, powers 35, 45, and 90, object glass 2½in. diameter, rack-work adjustment, packed in mahogany case 10 10 0
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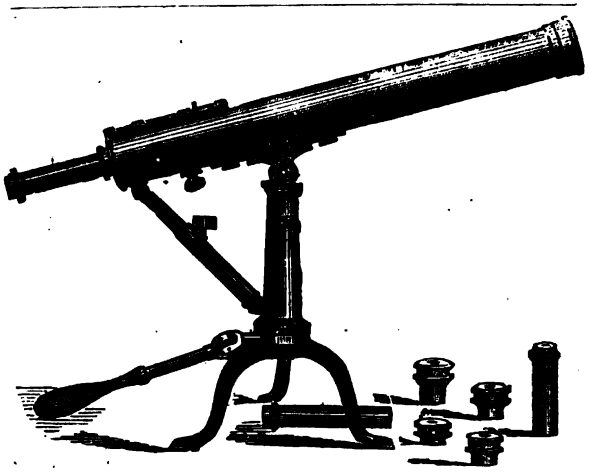


Fig. 4.

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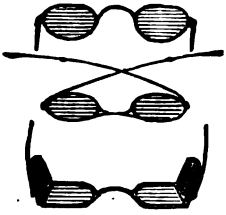
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Fig. 5.



Figs. 7. 8. 9.



Fig. 6.

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Figs. 10, 11. *Lenses accurately fitted to suit every sight.*

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Pocket Case of German Silver Instruments, containing a pair of compasses, with needle points and jointed legs, lengthening bar, spring bow-pen, drawing pen, and pair of dividers . . .	1	10	0
Pocket Case of German Silver Instruments, superior finish, in morocco case . £1 15s to	2	2	0

DRAWING INSTRUMENTS continued

	£	s.	d.
A Set of German Silver Instruments, consisting of large and small compasses, with jointed and shifting legs and needle points, a pair of dividers, spring bow-pen, lengthening bar, and drawing pen with ivory scale, in rosewood case . .	3	3	0
A Complete Set of German Silver Instruments, double jointed, large compasses with pen and pencil leg, hair dividers, double-jointed bow-pen and pencil, jointed lengthening bar, spring dividers, spring bow-pen and pencil, two drawing pens, penknife, and best ivory scales, in rosewood case .	5	0	0
Engineers' Set of German Silver Instruments, consisting of Brunell's compasses with solid slides, full divided proportional compasses, revolving bow-pen and pencil, hair dividers, spring bow-pen, and drawing pen, with ivory scales, in morocco leather case	6	16	6
Ditto, in handsome rosewood case . . .	7	7	0
Magazine and Cabinet Cases of Drawing Instruments, in electrum or silver, to order 10*l.* to	30	0	0
Pentagraphs for Enlarging or Reducing Plans, Maps, &c., in brass with case, 24in . .	5	5	0
For every additional 6 inches . . .	1	1	0
Beam Compasses, with extra pen and pencil points, micrometer adjustment, and ebony bar. Brass 2*l.* 5*s.* German silver. . . .	2	12	6
Proportional Compasses for enlarging or reducing drawings, full divided. Brass, 1*l.* 5*s.* German Silver	1	10	0
Engineers' Pocket or Pillar Compass, German Silver, in case . . . 1*l.* 1*s.* to	1	10	0
Napier's Ditto . . . 1*l.* 1*s.* to	1	10	0
Brass Compasses or dividers, 4in. to 6in. 1*s.* to	0	3	6
Best Ditto, German Silver, hair points, from .	0	5	0
Brunell's improved Compass, with solid slides .	2	10	0
Chain Scales of ivory, 12in. long . .	0	9	0
Two-inch offsets for ditto	0	2	0
Chain Scales of boxwood, 12in. long . .	0	3	0
Two-inch offsets for ditto	0	1	0
Marquois Scales, the set in box with book .	0	10	6
Architects' ditto, boxwood 5*s.* Ivory . .	0	10	0
Protracters in brass, boxwood, horn or ivory, 9d. to	0	6	

Parallel Rules in ebony, ordinary construction, 3d. per inch.

Rolling ditto ditto 9d. per inch, divided ivory edge 1*s.* 3d. per inch.

T Squares, Straight-edges, Curves, Angles, and every other description of Rule and Scale.

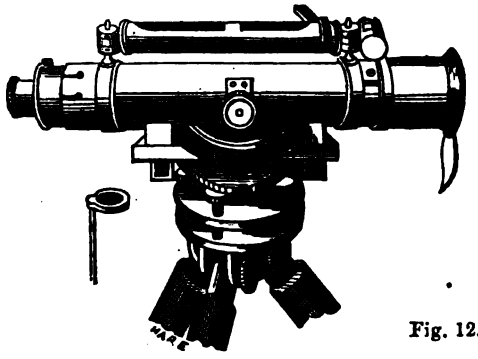


Fig. 12.

THEODOLITES, LEVELS, &c.

	£	s.	d.
Theodolite, 6 inch, of the best construction, divided on silver, with tangent screw adjustments, and tripod staff, in case complete	25	0	0
Ditto, ditto, with two telescopes	31	10	0
Theodolite, 5in., best construction, one telescope .	20	0	0
Theodolite, 4in., ditto	16	0	0
Transit Instruments, £15 15s. to	50	0	0
Dumpy or Gravatt's Level, 10in., with rack adjustment and tripod staff, in case Fig. 12. .	12	12	0
Dumpy Level, 10in., with silver ring compass, best construction, and tripod staff . . .	14	14	0
Dumpy Level, 14in., with silver ring compass, best construction, and tripod staff . . .	16	16	0
Miners' Dial, 5in., with divided cover, ball and socket joint, mahogany legs	5	10	0
Miners' Compass, 5in., with folding sights, in case, without legs	2	10	0
Draining Level for Agricultural purposes . .	2	0	0
Ditto, with parallel plates and mahogany legs .	3	0	0
Levelling Staff, Sopworth's 14 feet portable .	2	12	6
Spirit Levels mounted in brass, per inch . .	0	1	0
Prismatic Compass, 4in., with azimuth glass, in sling leather case	3	5	0
Tripod Stand, for ditto, with ball and socket joint	1	10	0

Pocket, or Box Sextant, in sling leather case, without telescope 4 0 0
Ditto, ditto, with telescope 4 10 0

Surveyors' Cross Box . . . 7s. 6d. to 0 15 0

Surveying Chains, warranted 66 feet, brass handles 0 10 6

Set of 10 Arrows 0 2 0

Measuring Tapes, best London-made, 50 feet . 0 7 6
66 feet, ditto . . . 0 8 6
100 feet ditto . . . 0 12 6

Pentagraphs, best construction, in brass, 24in. . 5 5 0
For every additional 6in. . . . 1 1 0

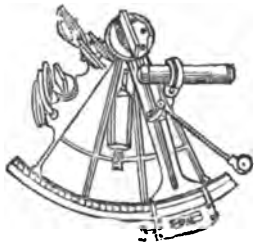


Fig. 13.



Fig. 14.

SEXTANTS, QUADRANTS, & COMPASSES.

Metal Sextants, divided on silver to 10 seconds Fig. 13 £8 8 0
Best ditto, extra power to telescopes, reflector, &c. . 10 10 0

Sextants in ebony, divided on ivory, with three telescopes, tangent screw, &c. , . . £6 6 0

Quadrant in ebony, with tangent screw Fig. 14. . 2 10 0
Ditto, with double tangent, and vertical screw . 3 0 0

Handle Quadrant, with all the adjustments, and two telescopes 4 10 0

Artificial Horizon, with mercury bottle and trough complete 4 4 0

Ships' Compasses, from 12s. to . . . 2 10 0

Pocket Compasses, in mahogany and metal cases, 2s. 6d to. 0 15 0

PHOTOGRAPHIC CAMERAS AND APPARATUS.

Expanding Mahogany Camera, with combined Portrait Lenses, ¼ plate size, frame for collodion plates, and finely-ground focus glass £3 0 0
Ditto, with tripod stand, and the requisite chemicals for the positive and negative processes 5 5 0

Expanding Mahogany Camera, with back for plates, focus glass, and double ½ plate lenses, for portraits, 6 by 5, and views 7 by 6 7 0 0

Ditto, with tripod stand, pressure frame, weights and measures, chemicals, &c., packed in case . 10 10 0

Expanding Mahogany Camera, with collodion back, focus glass, and double whole plate lens for portraits 8½ by 6½, and views 10 by 8 . . 14 0 0

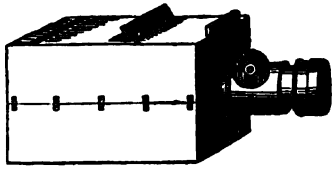


Fig. 15.

Portable Folding Camera, with sliding front, ¼ plate Portrait Lens, double back for holding two sheets of prepared paper, collodion back and focus glass for views, 6 by 5, and portraits, 4 by 3, packed in case Fig. 15. 5 0 0

Folding Camera, with sliding front, ½ plate portrait lens, and apparatus same as above, for views, 7 by 9, and portraits, 6 by 5, in case . . 9 9 0

Folding Camera, with whole plate lens, for views 10 by 8, and portraits, 8½ by 6½ . . . 16 16 0

Stereoscopic Camera, Latimer Clark's principle, with sliding back and adjusting table, without lens . 2 10 0

If the above Cameras are for India, they should have brass bands and corners, which will make an addition in price of 20*s.*, 30*s.*, *and* 40*s.*, *for either of the above sizes.*

Achromatic Portrait Lenses, with optical and chemical foci coincident, mounted in brass fittings with rackwork adjustment

No. 1. 1¼in. diameter, for portraits, 4 by 3in. . 2 0 0
No. 2. 2¼in. diameter, ,, 6½in. by 4¾in. . 4 4 0
No. 3. 3¼in. diameter, ,, 8½in. by 6½in. . 10 0 0

Single Achromatic Lenses, for views, mounted in brass, with rackwork adjustment.

No. 1. 1¾in. diameter, for views . 5 by 4in. . 1 5 0
No. 2. 2¼in. diameter, ,, . 8½ by 6½in. . 2 0 0
No. 3. 3in. diameter, ,, . 10 by 7. . 3 10 0

Larger sizes to order; the whole of the above Lenses are warranted perfect.

Tripod Camera Stands of various forms, 12s. 6d., to 1 10 0

Pressure Frames for printing positives on paper with jointed back for observing the picture for plates, 7 by 6in., 9 by 7in., 10 by 8in. 8s., 10s. and 0 12 0

Glass Plates best patent plate, ground edges.

3¼ by 2¾inches	0	1	6	7 by 6	0	7	0
4 by 3	0	2	0	8 by 6	0	8	0
4½ by 3¼	0	2	6	8½ by 6½	0	9	6
5 by 4	0	3	6	9 by 7	0	10	6
6 by 5	0	5	0	10 by 8	0	0	0

Plate Boxes, for holding 1 dozen glasses of the above various sizes, from 2s. to 0 6 6

Collodion Dipping Baths of Gutta Percha, with dipper for plates, 5 by 4in., 4s. 6d., 8½ by 6½ . 0 8 0

Albumenized Paper, for printing positives, of the best quality, 11 by 9in., per quire. . . 0 6 0

Ditto, ditto, thinner 0 3 0

Turner and Canson's Negative and Positive papers per quire, 1s. 6d, to 0 4 6

Negative Waxed Paper, 11 by 9in., per quire . 0 9 0

Iodized Paper, 7 by 6in., per dozen . . . 0 3 0

Pure Chemicals—

Acid acetic, glacial	per oz.	0	0 8
,, gallic	,,	0	2 0
,, pyrogallic	per dram	0	1 6
,, nitric	per oz.	0	0 2
,, sulphuric	per lb.	0	0 6
Ammonia Liquor pure	per oz.	0	0 3
Barium chloride	,,	0	0 4
Collodion	,,	0	0 9
" iodized	,,	0	0 9
Ether sulphuric	,,	0	0 6
Gold chloride	15grs. in bottle	0	3 0
Iron protosulphate	per lb.	0	1 0
,, protonitrate solution	per oz.	0	0 3
Mercury bichloride	,,	0	0 4
Potassium iodide	,,	0	2 6
,, cyanide	,,	0	0 4
Potass nitrate, powdered	per lb.	0	1 0
Potassa pure, for taking stains from the hands.	per oz.	0	0 4
Silver nitrate, crystalized	,,	0	4 0
,, ammoniacal nitrate	,,	0	1 0
,, iodide	,,	0	10 0
Soda hyposulphite	per lb.	0	1 0
Spirit varnish	per oz.	0	0 4
Tripoli	,,	0	0 6
Varnish for backing positives	per bottle	0	1 0
Water distilled	per gallon	0	0 6

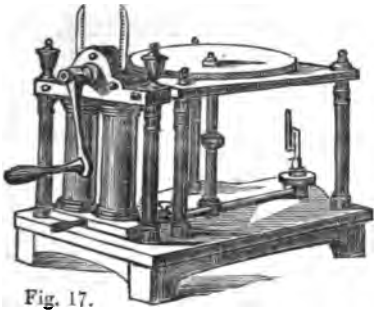


Fig. 17.

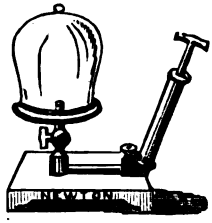


Fig. 16.

AIR PUMPS AND APPARATUS.

Air Pump, single barrel, plate 3¼in. diameter, with bell glass receiver	1	5	0
Air pump, with 5½in. plate, sloping barrel, bell glass receiver, and stopcock to keep a vacuum when removed from the pump (Fig. 16)	2	5	0
Double Barrel Air Pump, with 6in. plate	4	14	6
Ditto, ditto, with 8in. plate, and table clamp	7	7	0
Ditto, with 9in. raised plate, and gauge plate, mercurial syphon gauge, clamp and key (fig. 17)	9	9	0
Bell glass receiver for ditto	0	12	6
Double Barrel Air Pump, on mahogany stage stool, 3ft. high, plate 10in. diameter, with barometer gauge, cistern and key	18	18	0
Bell shaped receiver for ditto	0	15	0
Pocket Condenser	0	4	6
Condensing and exhausting syringe both in one instrument, 8in. long, 1in. diameter	0	14	0
Tall open receiver, 18in. high, with plate to close the top for guinea and feather, fountain in vacuo, and other experiments, for either of the pumps	0	10	6
Bladder glass	0	2	6
Magdeburgh Spheres 2½in. diameter, with handles	0	12	6
Ditto, 3in. diameter 16s. ditto 4in.	1	5	0
Guinea and Feather Apparatus, 2 falls	0	15	0
Bladder frame and lead weights	0	8	6
Mercury filtering cup	0	4	6
Lungs glass	0	6	6
Fountain plate, stop-cock and stand	0	10	0
Bell Experiment	0	10	6
Set of Pneumatic Apparatus, with air pump, 5½ plate, fig. 16, bell glass receiver, bladder frame and lead weight, Magdeburgh spheres, bladder glass, bell experiment, guinea and feather apparatus, tall open receiver, with plate for closing, fountain jet, mercury filtering cup and glass, condensing syringe. The whole packed in coloured case	6	6	0

ELECTRICITY AND GALVANISM.

Plate Electrical Machine, with 9in. plate, and brass conductor 1 5 0
Ditto, ditto, better construction . . . 2 10 0
Ditto, ditto, 16in., plate and double conductor . 4 4 0
This is a very cheap and useful Instrument.
Ditto, ditto, 18in. plate 7 7 0
Ditto, ditto, 24in. plate 12 0 0
Ditto, ditto, 30in. plate 20 0 0
Cylinder Electrical Machines, from 6in. to 12in. diameter £1 5s. to 5 10 0
Leyden Jars. . . . 3s. 6d. to 0 15 0
Jointed Dischargers . . 7s. 6d. to 0 12 6
Insulated Stool 0 12 6
Gold Leaf Electrometer . . 7s. 6d. to 0 15 0
Henley's Quadrant Electrometer . . 0 6 6
Pith Image Plates, with brass stand . . 0 10 6
Pith Figures 1s. each. **Balls** per dozen . 0 1 0
Set of Three Bells on brass beam . . 0 6 6
Head of Hair . . . 3s. 6d. and 0 5 6
Henley's Universal Discharger, for deflagrating metals, &c., for voltaic or frictional electricity . 1 12 6
Electro-Galvanic Machine, for Medical purposes, consisting of magnetic coil and handles, with Smee's battery, complete in case . . . 2 0 0
Improved ditto, with regulators, in mahogany case . 3 15 0
Smee's Batteries, in earthen or glass cells, from . 0 7 9
Six-cell Smee's Battery in Gutta Percha cells in Mahogany box, with ratchet lifter for raising the plates out of the acid, connections for *quantity and intensity*, 144 inches of platinum surface . 3 13 6
Maynooth Battery, with porous pot, zinc and iron cell, large size 0 8 6
Grove's Battery 0 10 6
Magnets, horseshoe, from 6d. to . . . 0 5 0
Electro-Magnets and keepers 7s. 6d. to . . 1 1 0
Electrotype Apparatus, Coils, Jars, and all kinds of Galvanic and Electrical Experiments.

MISCELLANEOUS.

Model of Diving Bell with pump . . 1 5 0
Model Locomotive Engine . . . 4 4 0
Railway for ditto, 3ft. diameter . . . 1 5 0
Gyroscope, for showing the procession of the equinoxes, and illustrating the properties of inertiæ . 1 1 0
Set of Mechanical Powers, large size, illustrating gravity, friction, motion, pulleys, screw, levers, &c. 5 5 0



CHEMICAL CABINETS.

Youth's Chemical Cabinet, containing upwards of sixty articles—

No. 1, in paper box	0	5	6
No. 2, cedar box, with hooks	0	7	6
No. 3, polished mahogany box, with lock and key	0	10	6

Student's Chemical Cabinet, in handsome mahogany case, containing upwards of one hundred articles—

No. 1, £1 1s. No. 2, £2 2s. No. 3, 3 3 0

Statham's Hydro-Pneumatic Apparatus, comprising in one piece of apparatus a Pneumatic Trough with large tray to hold Gas Jars; a Gasometer, and an Hydraulic Blow-pipe, complete with Lamp and Tongs 2 2 0

Ditto, fitted up with 90 Chemical Preparations and Tests, and a large assortment of superior apparatus, Air Jars, and, other necessaries for making gases 5 5 0

NEWTON'S IMPROVED GLOBES.

In introducing their List of Prices of Globes to the notice of the heads of Colleges and Educational Establishments, and the Public in general, the Publishers beg to state, that the greatest care has been taken to keep up the character which these Globes have attained for accurate and copious information. The positions of the Stars have been re-calculated, and the Maps on all the Globes laid down by Mr. W. Newton, Author of "Maps of the Stars," Editor of the "London Journal of Arts and Sciences," &c.—An attempt has been made to give to the Figures on the Celestial Globe a classical elegance, which, it is hoped, will be found an improvement upon the Constellations usually placed on the Celestial Globe.

In order to meet the increased demand for good and accurate Globes, at such prices as will admit of these instruments being more generally adopted in schools, the Publishers have, at considerable expense, made arrangements for manufacturing Globes especially for the use of Students in Schools; and, although the prices for these Globes are exceedingly low, the same attention is paid to accuracy as in the more expensive ones.

NEWTON'S SCHOOL GLOBES.

With Electro Brazen Iron Meridians, Brass Hour Circles, &c.

No. 1.

Black Stained Wood Frames, for the Table.



	£	s.	d.
25-in. Globes, per pair .	18	0	0
20-in. ditto ditto .	8	10	0
15-in. ditto ditto .	4	10	0
12-in. ditto ditto .	3	3	0
9-in. ditto ditto .	2	10	0

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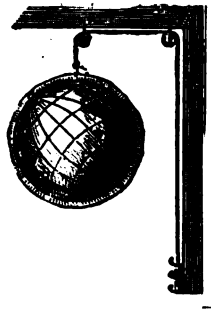


No. 2.

Chair-high Pillar and Claw Mahogany Frames.

25-in. Globes, per pair .	£21	0	0
20-in. ditto ditto .	10	10	0
15-in. ditto ditto .	6	10	0
12-in. ditto ditto .	4	10	0

—o—



Globes for Suspension from the Ceilings of School Rooms, by means of cord and pulley.

25-in. Globe, each .	£7	7	0
20-in. „ „ .	3	10	0
15-in. „ „ .	1	15	0
12-in. „ „ .	1	0	0

NEWTON'S USE OF THE GLOBES. Containing all the Problems, and various Examples illustrative of the same, for the Use of Students. Price 1*s.* 6*d.*

NEWTON'S SLATE GLOBES.



Mounted on Pedestals, and having the lines of Latitude and Longitude marked thereon. The surface of these Globes is so prepared that the Student may, with an ordinary slate-pencil, draw on the surface, the outline of the Map of the Earth, or any part thereof, and any marks so made may with equal facility be removed by means of a damp sponge.

in. Globes, each	5	0	0	12-in. ditto ditto	£1	1	0	
in. ditto ditto	3	0	0	9-in. ditto ditto	0	16	0	
in. ditto ditto	1	10	0	6-in. ditto ditto	0	9	0	

—o—



Newton's Reading or Reference Globes,

Mounted on Mahogany Pedestals in Brazen Meridians, with the Degrees of Latitude marked thereon.

	£	s.	d.
25-in. Globes, each . .	8	0	0
20-in. ditto ditto . .	2	15	0
15-in. ditto ditto . .	1	15	6
12-in. ditto ditto . .	1	1	0

In addition to the above Globes, the following smaller sizes are mounted on Mahogany Pedestals, and are particularly adapted for Prizes in Schools.



Mahogany Pedestals.

	s.	d.
9-in. Globes, each . . .	16	0
6-in. ditto ditto . . .	6	6
4½-in. ditto ditto . . .	4	6
3-in. ditto ditto . . .	3	0
2-in. ditto ditto . . .	2	0

—o—

In Neat Mahogany Cases.



	s.	d.
3-in. Globes, each . . .	3	0
2-in. ditto ditto . . .	2	0
1½-in. ditto ditto . . .	1	6
1-in. ditto ditto . . .	1	0

NEWTON'S GLOBES FOR THE LIBRARY OR DRAWING ROOM.

Highly finished, with engraved Brass Meridians, Double Hour circles, Quadrants of Altitude, and Compass boxes, and containing all the most recent improvements, in handsome carved Mahogany and Rosewood frames.

No. 2.



Neat Mahogany Frames,
Intended for Table Use.

	£	s.	d.
20-in. Globes, per pair .	10	10	0
15-in. ditto ditto .	6	10	0
12-in. ditto ditto .	4	10	0
9-in. ditto ditto .	3	10	0
6-in. ditto ditto .	2	2	0

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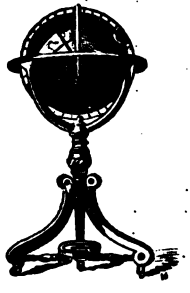


No. 3.

Polished Mahogany Frames,
With Compass Boxes.

	£	s.	d.
25-in. Globes, per pair .	25	0	0
20-in. ditto ditto . .	13	13	0
15-in. ditto ditto . .	8	8	0
12-in. ditto ditto . .	5	10	0

—o—



No. 4.

Best Carved Mahogany Pillar and Claw Frames.

25-in. Globes, per pair .	£31	10	0
20-in. ditto ditto .	15	15	0
15-in. ditto ditto .	10	10	0
12-in. ditto ditto .	6	16	6



No. 5.

Very Handsome Carved Tripod Frames,

Of best Spanish Mahogany.

25-in. Globes, per pair	£36	0	0
20-in. ditto ditto	18	18	0
15-in. ditto ditto	12	12	0
12-in. ditto ditto	7	10	0

No. 6.

Massive Rosewood Tripod Frames.

With Fluted Legs, extra Carved (New Pattern).

25-in. Globes, per pair	£42	0	0
20-in. ditto ditto	22	10	0
15-in. ditto ditto	15	15	0

No. 7.

osewood or Walnut-tree Queen's Pattern Pillar and Claw Frames.

Extra Carved and French Polished.

25-in. Globes, per pair	£42	0	0
20-in. ditto ditto	18	18	0
15-in. ditto ditto	12	12	0
12-in. ditto ditto	8	8	0

COVERS FOR GLOBES, OF AMERICAN LEATHER CLOTH.

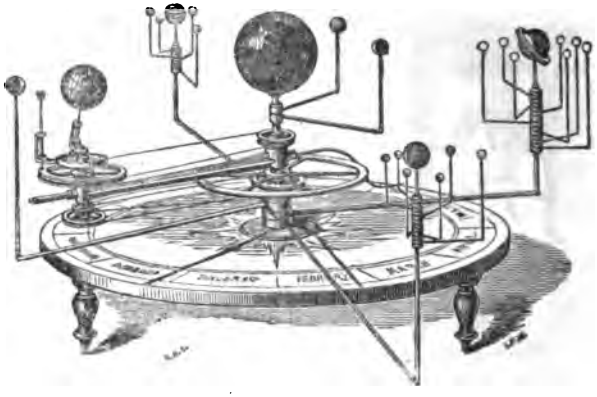
Short for Table Globes.				*Long for High Frames.*			
-in. per pair	£1	4	0	25-in. per pair	£2	0	0
-in. ditto	0	15	0	20-in. ditto	1	10	0
-in. ditto	0	10	0	15-in. ditto	1	1	0
-in. ditto	0	6	0	12-in. ditto	0	14	0

Quadrants of Altitude

for

-in. Globes	10*s*	6*d*		12-in. ditto	3*s*	6*d*	
-in. ditto	6*s*	0*d*		9-in. ditto	3*s*	0*d*	
-in. ditto	6*s*	0*d*		6-in. ditto	2*s*	0*d*	
-in. ditto	4*s*	6*d*		3-in. ditto	1*s*	6*d*	

ORRERIES, &c.



Complete Orreries, mounted on 17½in. board, showing all the Planets and their Satellites, Diurnal and Annual Motions of the Earth, Monthly Motion of the Moon, Revolutions of Mercury, Venus, and all the Planets, to work by winch, in case complete . £10 10 0

Ditto, on 17½-in. board, the Earth and Moon, and two Planets only, being made to move by winch, in case . 5 5 0

Ditto ditto, having the same Motions, to move by hand, in case . . . 3 13 6

Tellurian, showing the movements of the Earth and Moon round the Sun, the Earth being represented by 1-in. Globe, made to move by wheel-work, intended to explain the Phenomena of the Seasons, Tides, Day and Night, &c.

Mounted on a 13½-in. board, in case . £1 11 6

Armillary Spheres.

Mounted on Mahogany Pedestals.

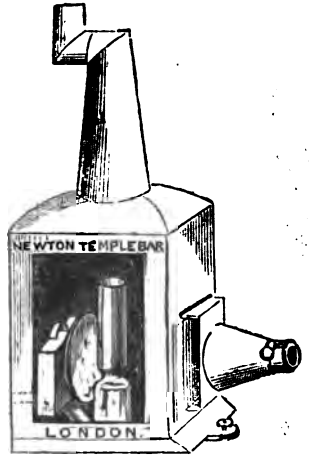
20-in. Diameter	£10 10 0
15-in. Diameter	6 6 0
12-in. Diameter	5 5 0
9-in. Diameter	3 10 0

Larger Sizes made to Order.

Old Globes may be re-covered with new maps, and rendered equal to new, at the price of £8. 8*s.* per pair for 25-in.; £5 5*s.* the 20-in.; £3 3*s.* the 15-in.; £1 15*s.* 12-in.

MAGIC LANTERNS.

		£	s.	d.
No. 1	**Magic Lantern**, with one dozen 6in. Comic Sliders, in box	0	7	6
No. 2	Ditto, with 8in. Sliders	0	10	6
No. 3	**Magic Lantern**	0	10	6
	One dozen 10in. Comic Sliders for ditto .	0	12	0
No. 4	**Magic Lantern**	0	16	0
	One dozen 12in. Comic Sliders for ditto 16s. to	1	0	0
No. 5	**Improved Magic Lantern**, with Argand Lamp	1	15	0
	One dozen 14in. Comic Sliders for ditto .	1	5	0



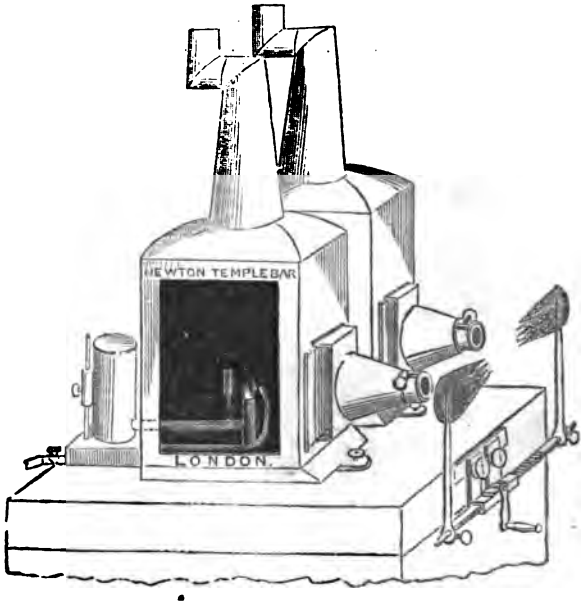
NEWTON'S IMPROVED PHANTASMAGORIA LANTERNS.

		£	s.	d.
No. 1	**Newton's Improved Phantasmagoria Lantern**, with lenses 3in. diameter, mounted in brass cells, with sliding focus tube, capable of showing a clear disc of light 8ft. in diameter, packed in case	2	12	6
No. 2	**Newton's Improved Phantasmagoria Lantern**, with lenses 3½in. diameter, and very powerful fountain Argand lamp and reflector, suitable for Schools or Lectures .	3	3	0

Messrs. Newton *strongly recommend* this No. 2 Lantern to their customers, the difference in price over No. 1 being very small, and

the superior size of the lenses enabling the exhibitor to show by it *any* of the pictures in the following list. No. 1 and 2 are fitted with rack and pinion adjustment to the focus tube for 10*s.* 6*d.* each extra.

No. 3 Newton's Improved Phantasmagoria Mahogany Lantern, with lenses 4½in. diameter, rack-work focus tube, packed in case 6 6 0



NEWTON'S IMPROVED DISSOLVING VIEW APPARATUS.

The Apparatus is here shown fitted with Newton's Improved Oxycalcium light,—a jet of oxygen gas is thrown through the flame of a spirit-lamp on to a lime-cylinder fixed at some little distance from it; by this means a most brilliant light is obtained, scarcely inferior to the oxy-hydrogen, with half the trouble, and without any of the danger—the oxygen alone being perfectly harmless. The great inconvenience of the lime shifting when hung on a small wire, as in the ordinary Oxycalcium Light, is here obviated by putting the cylinder on a fixed wire.

For private exhibition this Apparatus is fitted with powerful Argand Fountain Oil Lamps.

	£	s.	d.
Dissolving View Apparatus, with Condensing Lenses, 3-in. diameter, with powerful Argand Fountain Lamps and reflectors, Dissolvers moved by rack-work, packed in case with room for sliders	7	7	0
Dissolving View Apparatus, with Condensing Lenses 3½-in diameter, Dissolvers moved by rack-work, suitable for Schools and Lectures, and capable of showing the whole of the paintings in the following lists	8	8	0
Ditto, ditto, with rack adjustment to focus tubes .	9	9	0
Messrs. Newton *strongly recommend* this Apparatus.			
Dissolving View Apparatus, with Condensing Lenses 4½in. diameter, with rack-work Dissolvers and focus tube	12	12	0
Newton's Improved Microscope to attach to the Lantern for exhibiting water insects, wings, sections of wood, &c., with two powers	1	10	0
This Instrument does not show satisfactorily with the oil lamps on account of its power and the amount of light required, but when the Oxycalcium Light is used, it is a very beautiful and efficient Instrument.			
Oxycalcium Light Apparatus, consisting of a Fountain spirit lamp, india rubber gas-bag, with box and improved pressure boards, retort and purifier for making the gas, flexible tube, and one dozen lime-cylinders, fitted to one lantern . .	5	5	0
Ditto fitted to either Dissolving View Apparatus .	6	6	0
Dissolving View Apparatus, illuminated with oxy-hydrogen light, Condensers 6in. diameter, with gas jets, retort, gas bags, pressure board, and all the apparatus complete	35	0	0
Transparent or Opaque Screens, for exhibiting the pictures by any of the apparatus, 7ft. square, 8s. 6d. ; 10ft. square	0	15	0
Lime Cylinders, 3 dozen in Bottle	0	6	0
Objects for the Gas Microscope, prepared in Canada Balsam, consisting of Insects, Wood Sections, Ferns, &c., 1s. to 4s. each			
Mixture for Making Oxygen Gas, per lb. . .	0	1	6

CHROMATROPES, OR ARTIFICIAL FIREWORKS.

2½in. diam., 8*s.* 6*d. each ; 3in. diam.* 10*s.* 6*d. each.*

These ingenious and clever contrivances comprise a great variety of novel and elegant designs, and when put in motion in the Phantasmagoria Lantern, by means of the brass Rack-work, produce most astonishing and brilliant effects.

GENERAL LIST OF VIEWS.

FOR THE IMPROVED PHANTASMAGORIA LANTERN.

In Single Sliders, Paintings 3¼ inches Diameter, 6s. to 7s. 6d. each.

The Views enumerated in the following lists are painted on the premises by competent artists under the immediate superintendence of Messrs. Newton. Customers wishing to have engravings or original drawings copied on to glass, can thus have the advantage, if necessary, of giving their instructions direct to the artists.

A variety of other Subjects always on hand. Views painted to order 4in., 6in., and 10in. diameter for Public Institutions.

Arctic Regions—
Aurora Borealis
Whaling
Winter Quarters
Night Encampment
Icebergs
Greenland Whalers
Cutting a passage

Natural Wonders—
Adelsburg, Cave of
Boiling Springs
Fingal's Cave
Giant's Causeway
Glacier Tables
Niagara Falls
Water Spouts
Mont Blanc & Chamouni
,, Grand Mulets
,, Glacier du Tacconay
,, Mur de la Cote
,, The Summit

London Views—
General view
Bank of England
Buckingham Palace
Custom House
Greenwich Hospital
Guildhall
Hampton Court
Houses of Parliament
Mansion House
Nelson's Column
Post Office
Royal Exchange
St. Paul's
Temple Bar
Tower of London
Thames Tunnel
Westminster Abbey

Ruins and Abbeys—
Dryburgh Abbey
Fountains ,,
Holy Cross ,,
Kirkstall ,,
Melrose ,,
Netley ,,
Newby ,,
Tintern ,,
Youghall ,,
Pembroke Castle
Lanercost Priory

General Views—
Amsterdam
Balaklava Harbour
Balmoral
Berne
Bell Rock Lighthouse
Ben Lomond & Loch Lomond
Birthplace of Burns
,, Shakespeare
Brussels
Calcutta, Government House
Catania and Mount Etna
Castle of Chillon
Coblentz on the Rhine
Constantinople
Convent of St. Bernard
Devil's Bridge, St. Gothard
Dublin
Edinburgh Castle
,, Scott's Monument
Eddystone Lighthouse
Florence, Campanilla
,, Ponte Vecchio
Fords of Cairo
Fortress of Ham, France
Cairo and Pyramids
Geneva, and Lake Leman

Gathering Gutta Percha
Gibraltar
Gold Diggings, Australia
Great Wall of China
Killarney, Lake of
Lake of Como
Huy, Belgium
Lisbon
Malakoff, Storming of
Martigny
Mandarin's House and Garden, Pekin
Madrid
Melbourne, Australia
Mosque of St. Sophia
Mosque of Mahommed II.
Nantes
Naples, Bay of
New York
Noss Head and Cradle, Shetland
Oberwesel on the Rhine
Palermo Cathedral
Paris, Notre Dame
,, Place de la Concord
Pompeii, Temple of Isis
Porcelain Tower, Nankin
Rome, General View
,, St. Peter's
,, Bridge of St. Angelo
St. Michael's Mount, Cornwall
Sebastopol
Stockholm
St. Petersburgh
Snowden and Llanberis
Stonehenge
Strasburg
Valetta, Malta
Venice, St. Mark's
,, Canal and Bridge
,, Ducal Palace
Warwick Castle
Windsor Castle
Waterloo, Field of

VIEWS, WITH MOVING SHIPPING,

7s. 6d. each.

View of Constantinople
Greenwich Hospital
Lambeth Palace
Custom House
Tower of London
Bell Rock Lighthouse
View of Rome
Bay of Naples
Quebec
The Rialto, Venice
Castle of Chillon
Lake of Como

DISSOLVING VIEWS, &c.

Tower of London by Day, then by Moonlight, then on fire, 3 slides 18*s.*
St. Peter's at Rome by Day, then illuminated by fireworks from the Castle of St. Angelo at Night 12*s.*
Ship in full sail, changing to a storm with lightning, then on fire, then the survivors on a rock, 5 slides 26*s.*
Mount Vesuvius by Day, and Night with eruption 12*s.*
Old Royal Exchange by Day, then on fire, changing to New Exchange, 3 slides 18*s.*
The Soldier's Dream, Scene Wounded Soldier Asleep, The Harvest Home, The Recruit, The Storming Party, The Reward, 5 slides 30*s.*
Summer and Winter, with slider to produce a snow-storm, 3 slides 20*s.*
A Windmill, with sails revolving 10*s.* 6*d.*
A Watermill, ditto, ditto 10*s.* 6*d.*
A Fountain playing 10*s.* 6*d.*

VIEWS IN THE HOLY LAND, EGYPT, &c.

Paintings 3¼ inches diameter, 6s. to 7s. 6d. each.

Adullam, Cave of
Antioch
Ajalon, Valley of
Baalbec, Ruins of
Babylon
Beirout
Bethany
Bethlehem
Cana of Galilee
Chapel of Nativity
Cedars of Lebanon
Christ Church, Mount Zion
Church of Holy Sepulchre
Interior of ditto
Corinth
Carnac
Damascus
Dead Sea
Defiles of Edom
Ephesus
Ezion, Geber
Gethsemane
Jerusalem, Ancient
,, Modern
Jews place of Wailing
Jericho, Ruins of
Joppa
Jordan, Fords of
Lake of Tiberias
Laodicea
Mount Ararat
,, of Ascension
Mount Horeb
,, Steps leading to
,, Carmel
,, Moriah
,, Hor
,, Olives from the Wall
,, Tabor
,, Sinai and Convent of
Nazareth
Nile, overflow of
Nineveh
Palmyra, Ruins of
Patmos
Pergamos
Plains of Lawgiving
Pool of Siloam
,, Hezekiah
Philadelphia
Ramah (Arimathea)
Red Sea
Samaria
Shechem, (Nablous)
Sidon, from the Sea
Smyrna
Sardis
Tyre, Ruins of
Thebes, Ruins of
Thyatira
Tomb of Absalom
Valley of Jehoshaphat
Written Valley, Wilderness of Sin.

INTERIORS OF CATHEDRALS, &c.

These paintings are beautifully and elaborately executed 3½in. diameter, 12s. each.

Canterbury Cathedral
Durham ditto
Exeter ditto
House of Commons
House of Lords
Lichfield Cathedral
Lincoln ditto
Lyons ditto
Milan ditto
Mosque of Sultan Achmet
Rheims Cathedral
St. Paul's Choir
Ditto Dome during Wellington's Funeral
St. George's Chapel, Windsor
Temple Church, London
Wells Cathedral
Henry VIIth's Chapel
Westminster Abbey Choir
Westminster Hall
Winchester Cathedral
York Cathedral

MISSIONARY SCENES.

Paintings 3¼ *inches Diameter,* 10*s.* 6*d. each.*

CHINA.

Entrance into Amoy
Street in Canton
Opium Smoking
Sacrifice to the Harvest Moon
Consulting the Sticks of Fate
Temple of Pootoo
Interior of the Temple Honan
Offerings for the Dead
Interior of Idol Shop

AMERICA—NORTH-WEST.

Mr. West and Indian Boys
Bear Medicine Man
Cumberland Station, Summer
ditto Winter
Abraham and Indians
Missionary Night Encampment
Group of Indians and Squaws
Death of George Jebb
Henry Budd in snow-shoes
Bishop travelling in dog-sledge
Departure of Missionary
Bishop preaching to Indians
Indians going to Church

AFRICA.

Slave-catcher, or Capture of Thomas King
Slaves marched down to Coast
Capture of Slave-ship
Interior of Slave-ship
Sierra-Leone, in 1800
Ditto 1856
Sunday-school, Sierra-Leone
Natives of Abbeokuta
Interior of Rev. J. Crowther's Church
Thomas King meeting his Mother after a separation of 25 years
Native preaching before the King of Lagos

INDIA.

Self-torture
Swinging Festival
Dying Man at the Ganges
Worship of Juggernaut
Worship of Priest
Missionary preaching on the Ganges
Ditto ditto under Banyan-tree
Native Catechist preaching
Infant thrown to Crocodiles
Idol-maker's Shop
Rev. J. Devasagayam's Church
Devil Worshippers, Ceylon.

NEW ZEALAND.

Rangihoa
Pahu, or the War Bell
Pukana or War Dance
War Canoes
Memorial Idols
Reconciliation of Hostile Tribes
Chief Lying in State
Interior of Native Pa
Wanganui and River, from Cave
Cave of Otaki,—Night Encampment
Interior of Otaki Church
Baptism of Te Naghui
Interior of Turanga Church
Chiefs writing Jubilee Letter

LEVER SLIDES, 6*s.* 6*d.* to 7*s.* 6d. each—

Horse drinking at a pond
Children playing at see-saw
Cobbler at work
Old man begging, takes off his hat
Cow drinking
Shoeblack blacking a boot
Man breaking stones
Ship at anchor
&c. &c.

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A series of 38 *Paintings* 2½ *inches Diameter,* £2 5*s. per set.*

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4	Half Moon	23	Newtonian ditto
5	Crescented Moon	24	Shadow of the Earth
6	Moon's Phases	25	Ditto ditto
7	The Sun	26	Cause of Eclipse of Moon
8	Telescopic View of Mercury	27	Cause of Eclipse of Sun
9	——— Phases of Venus	28	Eclipse of Sun (*moveable*)
10	——— Mars	29	Orbit of Moon
11	——— Asteroids	30	Eclipse of Moon (*moveable*)
12	——— Jupiter	31	The Zodiac
13	——— Saturn	32	The Seasons
14	——— Ditto	33	Spring Tides
15	——— Uranus	34	Ditto ditto
16	——— Neptune	35	Neap Tides
17	Eccentric orbit of Comet	36	Constellation of Orion
18	Comet of 1811	37	——— Ursa Major
19	——— 1680	38	Milky Way and Nebulæ

MOVEABLE ASTRONOMICAL DIAGRAMS.

THE MOTION PRODUCED BY RACK-WORK.

In a Set of Ten Sliders, packed in a Box, £4 10*s. per Set, or from* 7*s. to* 15*s. each.*

Slider 1, 15*s.* The Solar System, showing the Revolution of all the Planets, and their Satellites, round the Sun.

Slider 2, 13*s.* The Earth's Annual Motion round the Sun, showing the Parallelism of its Axis, thus producing the Seasons.

Slider 3, 8*s.* Illustrates the cause of Spring and Neap Tides, and shows the Moon's Phases.

Slider 4, 8*s.* Shows the Apparent, Direct, and Retrograde Motion of Venus or Mercury, and also its Stationary Appearance.

Slider 5, 8*s.* Proves the Earth's Rotundity, by a Ship sailing round the Globe.

Slider 6, 8*s.* Illustrates the Eccentric Revolution of a Comet round the Sun, and shows the appearance of its Tail at different parts of its Orbit.

Slider 7, 10*s.* The Diurnal motion of the Earth, showing the Rising and Setting of the Sun, illustrating the cause of Day and Night, by the Earth's Rotation upon its Axis.

Slider 8, 15*s.* Illustrates the Annual motion of the Earth round the Sun, with the Monthly Lunations of the Moon.

Slider 9, 8*s.* Shows the various Eclipses of the Sun with the Transit of Venus.

Slider 10, 8*s.* Shows various Eclipses of the Moon.

MOVEABLE COMIC AND OTHER SLIDERS,

2s. 6d. each.

Barber, shaving
Bottled porter
Black draught
Blacksmith at work
British Tar (a Sailor in a cask)
Boy catching Butterfly
Blue Beard's head
Birth of Cupid
Boy and Bird's-nest
Boys jumping post
Boy stealing jam
Burglar and Miser
Cockney Fisherman
Cauliflower changes to Venus
Cook and Calf's head
Combat
Cobbler at work
Cat following a Rat
Cat and Mice
Cats on the Tiles
Chinese Jumpers
Clown
,, headless
,, and Donkey's head
,, tumbling
,, and dancing Dog
,, jumping Horse
,, and Ladder
Caterpillar, Chrysalis, and Butterfly
Dishonest Customer
Equestrian at Astley's
Falconer
Farmer and Dog
Fakenham Ghost
Grand Turk, moving eyes
Grimaldi's head
Green's balloon, Night Ascent
Girl skipping
Harlequin in bottle
,, falling to pieces
Hodge and his Hat
Impudent Monkey with Old Woman
Jim Crow dancing
Jamaica Rum
Kicking Donkey
Lamp Black (sweep in cask)
Light of other days
Lion's head
Leap Frog
Man pulling off boot
,, with jumping Pig
,, swallowing Rat
,, with Pie
,, wishing *good night*
Meet me by moonlight alone
Naval Engagement
Navigation (boys sailing boat)
Opening Rose, exposing Cupid
Opening Pink
Pine-apple changes to a clown
Performance on two chairs
Peacock with opening tail
Punch Bowl
Punch with growing Nose
Pear (Pair)
Policeman kissing the cook
,, courting
,, stealing rabbit-pie
Patent Bedstead
Pair of Spectales
,, Snuffers
Pretty Poll
Rowing Match
Royal stout
Rum Bottle and Punch
Sailor riding a Pig
Snowballs
Somnambulist
The Serenader
Tiger's head
Tailor sewing
,, and Goose
Tight-rope Dancer
Tartar's head
The Night-mare
Tithe Pig
Tumbler and Ball
Topsey's head (moving eyes)
Wreath and Good night
Woman beating Boy
,, and Glass
Windy Day
Vegetarian
United Service

NATURAL HISTORY.

Painted in circles 2½ inches Diameter, 4 in each slider, 4s. 6d.

No. 1 Angora Goat—Antelope—Alpaca—Addax.
2 Baboon—Monkey—Striated Monkey—Ourang Outang.
3 Long-armed Ape—Opossum—Ditto & young—Chimpanzee
4 Armadillo—Porcupine—Hedgehog—Vampire Bat.
5 Squirrel—Flying Squirrel—Ermine—Chameleon.
6 Kangaroo—Jerboa—Chamois—Ibex.
7 Jackal—Jaguar—Ounce—Ant Eater.
8 Bear Polar—Bear Brown—Beaver—Otter.
9 Bull—Bramah Bull—Bison—Buffalo.
10 Newfoundland Dog—Wolf—Fox—Wild Cat and Bird.
11 Elephant—Elephant female—Rhinoceros—Hippopotamus
12 Lion—Lioness and cubs—Tiger—Panther.
13 Camel—Bactrian Camel—Dromedary—Yak.
14 Leopard—Hunting Leopard—Giraffe—Gnu.
15 Reindeer—Roebuck—Nil Ghau—Hyæna.
16 Zebra—Llama—Tapir—Ornithornicus.
17 Seal—Turtle—Walrus—Whale.
18 Swan—Albatross—Apteryx—Blue and Yellow Macaw.
19 Belearic Crane—Battledore Parrot—Cassowary—Crane.
20 Caroline Parrot—Dodo—Eagle and Fawn—Hornbill.
21 Flamingo—Falcon—Golden Eagle—Ground Parrot.
22 Heron—King Vulture—Llama Geyer—Numidian Crane.
23 Ostrich—Osprey—Owl—Pelican.
24 Paraquet—Peacock—Paradise Bird—Roseate Cockatoo.

DIRECTIONS FOR USING

Newton's Improved Phantasmagoria Lantern, &c.

To prepare a single lantern for exhibition, the lamp must be furnished with a cotton wick, and trimmed in the usual manner. In order to supply the lamp with oil, the reservoir must be removed from the cistern, and a small quantity of oil poured into the latter, so as just to fill the hole at the bottom, and well saturate the cotton wick. The moveable reservoir should then be inverted and filled with *the best sperm oil*, and replaced in the cistern. The lamp may then be lighted, and the wick turned up until an intensely bright light without any smoke is obtained. Before using the lantern, the lenses should be taken out and wiped, so as to remove any dust or moisture that might be on them; the lamp-glass must be also cleaned previous to placing it on the lamp, and care should be taken that the silver reflector is brightly polished.

The screen or medium upon which the picture is to be shown, may consist either of a large linen sheet; or a white wall if the picture is to be shown *on* the screen, or a fine semi-transparent muslin medium suitably prepared for the purpose may be employed; in which case the picture is to be shown *through* the screen.

The former is the most usual plan, but the latter possesses many advantages, and is therefore preferable. When the semi-transparent muslin medium is employed, the screen must be wetted with water, and kept in that state during the exhibition: it should be suspended from a beam or frame placed at a convenient

distance from the wall, the exhibitor being on one side of the screen, and the spectators on the other. The lantern having been placed at a suitable distance from the screen, say, from eight to twelve feet, according to the size of the lenses, should it not throw a clear and bright disc of light on to the screen or medium, it may be corrected by moving the lamp a little back or forward, that is a little nearer to or farther from the lenses. A clear and well-defined disc can by this means be obtained with facility by the most inexperienced person after a few trials, and when this has been satisfactorily effected, a slide or picture may be put in the groove and "focussed" by carefully moving in or out the brass "nose" or tube in front, until the picture is perfectly clear and distinct. This operation is considerably facilitated by the employment of a rack and pinion motion, whereby the position of the lenses may be instantly adjusted with great nicety.

A MICROSCOPE may be attached to these lanterns for the purpose of showing Natural Objects as with the Gas Microscope, but of course with an inferior light. Wings, sections of wood, ferns, parts of insects, &c., may be shown from 3 to 6 feet in diameter. Water insects, larvæ, &c., may be exhibited alive when placed in the water-box supplied with the Microscope.

When the Oxycalcium Light is employed, this is a very beautiful and efficient instrument; when used, the front of the lantern carrying the small lenses is to be removed, and the Microscope front fitted in its place. It will be found necessary to draw the lamp back to get a clear disc of light, and when the highest power is used, further back still. The sliders are inserted and focussed in the same manner as the lantern slides.

DISSOLVING VIEWS are exhibited by means of two lanterns, each of which must be prepared in the manner already explained. The two lanterns are then placed side by side on the top of the box, and are secured in their proper places by clamp screws, so as to prevent them from shifting forward or backward. Clear and well-defined discs of light having been obtained from each lantern, the rackwork dissolving apparatus must be attached to the front of the box, and the dissolving fans, with their points towards each other, fixed into the ends of the rack bar, in such a manner that one of the fans may obscure or obstruct the light from one lantern, while the other fan allows the light from the other lantern to fall on to the screen. It is necessary to make the discs from both lanterns coincide perfectly on the screens, otherwise the illusion will be incomplete. Should the edge of one disc show beyond the edge of the other, it may be corrected by moving one of the lanterns slightly sideways, thereby causing it to turn on the clamp screws, until both discs are perfectly coincident. The lenses having been "focussed" in the way already explained, the apparatus will be ready for use. Pictures may be then introduced into the slide grooves of both lanterns; but one only of the pictures will be seen on the screen, the other of course being invisible, as it will be hidden by the fan that stands in front of the aperture. When the first picture has been exposed to view long enough, the exhibitor must begin to turn the winch of the dissolving apparatus slowly, so as to obscure or cut off the light from the first picture and bring forward the second. By thus throwing some of the light from the second lantern on to the first picture, the latter gradually becomes dim or indistinct, and dissolves away slowly; and by continuing the operation, the second picture, by

gradual and imperceptible degrees, assumes the place of the first, and comes out on the screen in a clear and distinct manner.

While the spectators are examining the second picture, the first may be removed and another slide introduced in its place, and the dissolving operation repeated, and so on until all the views have been shown. Many beautiful effects may be shown, such as falling snow in winter scenes, rainbows, lightning, and other atmospheric phenomena. For these purposes both lanterns must be used together; one to show the view and the other the effects.

THE IMPROVED OXYGEN LIGHT is produced by a jet of oxygen gas passing through the flame of a spirit lamp, and impinging against a cylinder of lime. The lamp used is one of the ordinary construction, but with a longer pipe, at the end of which is the burner, holding a small tuft of cotton which will seldom require renewing, as the flame does not consume it; about an inch from the burner is an upright pin on which the lime cylinder is placed, the jet through which the oxygen passes being exactly opposite to it. The gas is supplied from a wedge-shaped india-rubber bag, placed between pressure boards, on which is placed a weight of about 30*lbs.*; the flexible tube whereby the gas bag is connected with the lantern, is provided with a stop cock for regulating or cutting off the supply of gas. The lamp, after being supplied with spirit, is to be placed in the lantern and lighted, then attach the flexible gas tube, and gradually turn on the gas. If the jet of flame does not impinge exactly on the centre of the lime, it may readily be made to do so by turning up the cotton wick with a piece of wire; it will then produce an intensely brilliant and dazzling light, scarcely inferior to the well-known OXY-HYDROGEN LIGHT, at one half the expense, and *without the slightest danger*.

The oxygen gas is made from a mixture of chlorate of potass and the black oxide of manganese, in the proportion of two parts of the former to one of the latter. A considerable quantity of these ingredients well pulverised may be kept ready mixed, and about 1¼*lbs.* of the mixture will be sufficient to make enough gas to fill the bag and to exhibit the Dissolving Views for two hours or more, according to the economy with which the gas is used. The requisite quantity of the ingredients to make the gas is placed in the retort, and the connection between that and the purifier having been made, the retort may be placed on any common fire, and after a short time the gas will begin to come over, and bubble up in the purifier, which must previously be half filled with water. The first bubbles which will come over will consist principally of common air! this must be allowed to pass off, but the presence of pure oxygen will be easily ascertained by holding a piece of partly ignited paper to the exit aperture of the purifier, as the pure gas will, if a spark exists on the paper, immediately cause it to burst into flame. The flexible tube should then be attached to the exit aperture of the purifier, and the gas allowed to pass into the bag. When the gas leaves off bubbling in the purifier it will at once be known that the ingredients are exhausted: the retort should then be taken off the fire, and when cool, all the residuum must be removed therefrom, by washing it with cold water, care being taken that the retort *is well dried* before the next operation.

Messrs. NEWTON will be happy to give their customers any further instruction or information regarding the apparatus manufactured by them, either by letter, or by practical demonstration, at their establishment, 3, Fleet-street, Temple-bar, London.

T. C. Johns, Printer, Wine Office Court, Fleet Street.

Edinburgh, March 1857.

LIST

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Index.

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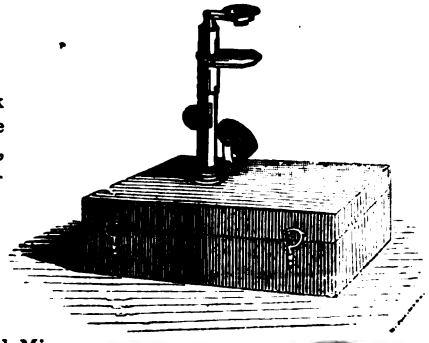
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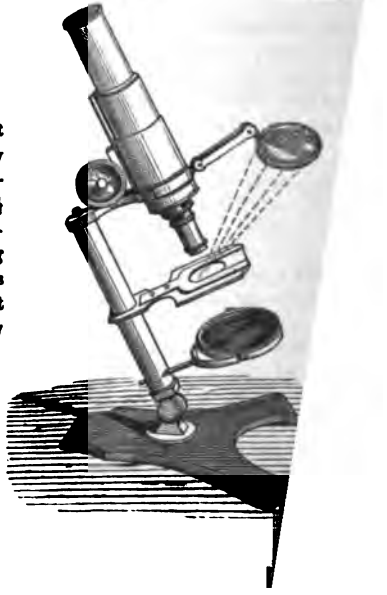
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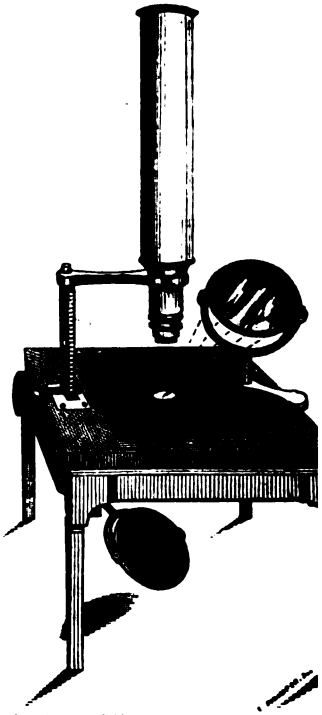


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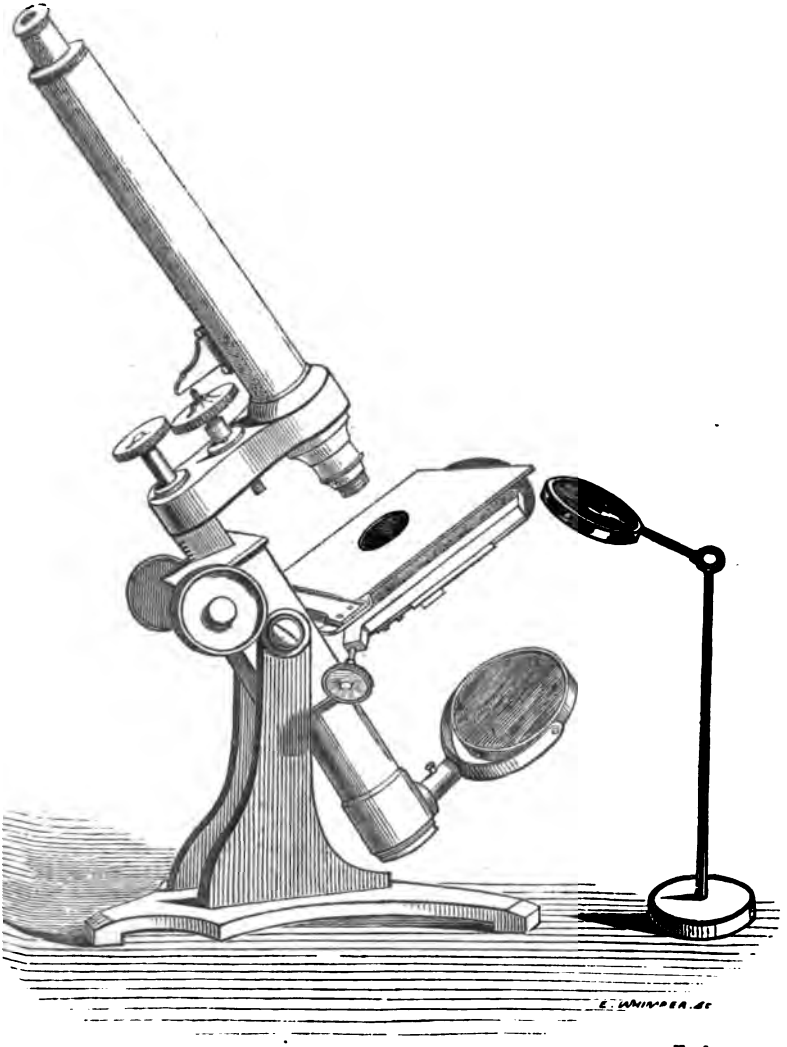
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¼ inch..	110°	„		„	„		„	„		„
¼ inch..	125° to 130°	420	or	176,400	670	or	448,900	900	or	810,000

N.B. The above Object Glasses, for defining and penetrating power, are of *first-rate* quality. Those of large angular aperture, marked •, being the finest that *can be made.*

Apparatus for Microscopes.

	£.	s.	d.
on bronzed foot, with brass sliding tubes, as sent with the			
5 Microscope each	0	5	0
ditto, ditto, for No. 43 . . „	0	8	6
ditto, on brass foot, for 49 . . „	0	16	0
for No. 25 Microscope each	1	4	0
for 43 or 49 Microscope „	1	10	0
Condenser, for 43 or 49 Microscope . . „	1	5	0
ida „	1	0	0
ss per pair	0	0	6
. „	0	1	6
cissors, with fine points . . . each	0	2	0
eedles, bone handles . . . „	0	0	6
nife, ivory handle „	0	1	3
Cage „	0	4	0
cting Instruments, in neat pocket-book, containing scissors, two needles in handles, forceps, and tortoiseshell hand ifier, with two powers, complete . . each	0	10	6
isc, on mahogany stand, for mounting objects . „	0	5	0
cutting wood sections . . . „	0	16	0
Animalcule Tubes, in leather case . . per set	0	4	0
with ground edges per gross	0	8	0
Porcelain Slides, with cells, for opaque objects, or in- gs per dozen	0	0	0
Covers, squares per oz.	0	4	0
circles „	0	5	6
ne, in bottles, for mounting . . . per bottle	0	1	0
am „	0	1	0
Asphalte „	0	0	9
roscope Lamp, with shade, on sliding upright . each	0	16	0

scope, with six large prepared crystals; to illustrate the zation of light. In neat leather case . . each 2 15 0

scope and Magnifier: in neat leather case, with 12 crystalline rations (quite new) each 2 5 0

Hand Magnifiers, for Dissecting, &c.

	per dozen,	8s.	9s. 6d.	16s.		
nifier, horn mounting, one lens.	No.	133.	135.	139.		
	per dozen,	14s.	16s.	20s.		25s.
ditto, two lenses.		134.	136.	140.		142.
	per dozen,	25s.	27s.	32s.		
ditto, three lenses.		138.	141.	143.		
n tortoiseshell mounting, two lenses . . each					0	4 0
with four lenses: forming 1, ½, ¼, and ⅛ inch powers „					0	7 3
Lens, in ivory or black mount. No. 127 . . „					0	6 0
s, Electrum mount, in neat leather case. No. 128 „					0	3 4
ling Stanhope Lens, gilt mounting . . „					0	3 4
ditto, silver mounting . . „					0	6 0
nakers' Eye Glasses. No. 125 . . per dozen					0	8 0
Tripod *Microscope, double lens* . . . „					1	4 0

Cases and Cabinets for Microscopic Objects.

	£.	s.	d.
Neat Leather Case, velvet lined, for holding one dozen objects flat, each	0	2	0
Ditto, ditto, with trays for two dozen objects . . „	0	2	6
Ditto, ditto, with trays for three dozen objects . . „	0	3	0

French-polished Mahogany Cabinet, with drawers, from £2. 10s. each.

Microscopic Preparations.

Number.				
93	Neatly mounted Objects, for beginners, on Slides ¾ by 2 inches. Assorted insect, vegetable, and other preparations. per dozen	0	1	0
94	Ditto, ditto, ditto, ¾ by 2½ „	0	1	8
95	Superior Preparations, on Slides 3 inches by 1 inch, in great variety, mounted dry per dozen	0	3	0
96	Best Preparations, mounted in balsam or fluid, including recent and fossil infusoria; spicules of sponges, and gorgonias; blood discs; insect dissections; parasites; vegetable preparations; viz.,—mosses, algæ, fungi, wood sections, spiral and other vessels, cuticles, petals, &c. per dozen	0	8	0
97	Set of 12 starches, (from Dr. Pereira's collection,) for testing adulteration in articles of diet, in neat leather case . the set	0	9	0
98	Set of 12 Polariscope objects, (crystals, &c.,) in neat leather case „	0	9	0
99	Anatomical injected preparations, human and comparative, muscular fibre, &c. per dozen	0	16	0

Educational Series.

The following interesting series of Microscopic preparations has just been completed:—every object is numbered and named, and a descriptive essay accompanies each set.

"Class A" is an introductory set, consisting of 24 preparations of various kinds, neatly fitted in a leather case, accompanied by a descriptive Essay, entitled "Microscopic Revelations." . . .	0	10	0
"Class B" consists of 24 insect preparations, in a leather case, accompanied by a popular description of the structure of insects; forming a practical introduction to the study of Entomology .	0	15	0
"Class C" contains an interesting and valuable series of 35 vegetable preparations, in a leather case; illustrating the Microscopic structure of plants: each object being numbered and described, so as to form a practical introduction to the study of Botany .	1	0	0

P.S.—A popular work, entitled "The Plant and the Microscope," will shortly be published, describing fully the preparations in this set. Price 2s. 6d.

Other series will probably be issued, comprising fossil infusoria and sponges, anatomical preparations, illustrations of adulterations in articles of food and commerce, &c., &c.

N.B. The above Microscopic preparations have just received the approval and recommendation of the Council of the Society of Arts.

Telescopes.

mber.				£.	*s.*	*d.*
	7s.	*10s. 6d.*	*12s. 6d.* per dozen.			
4	Boy's Perspectives	1	2	3 draw		
0	2-draw Telescope, japanned body			each	0	2 8
0	Ditto, ditto, ...				0	3 6
5	Superior 2-draw Telescope, leather body, 1¼ inch object glass .				0	4 6
5	Ditto, ditto, rose-wood body; ditto, .				0	4 9
3	Superior 2-draw "Pilot" Telescope, rose-wood body, 1¼ inch object glass				0	6 9
4	Ditto, ditto, with shade .				0	7 9

Best Achromatic Telescopes.

0	Best Achromatic 3-draw Telescope, mahogany body, 7 inches when closed, 1 inch object glass	0	7	6	
0	Ditto, ditto, with shade . . .	0	8	9	
0	Ditto, 3-draw, walnut body, 7 inches closed, 1¼ inch object glass	0	11	3	
	Ditto, morocco body, with shade, ditto, ditto, .	0	14	0	
4	Ditto, 3-draw, black body, with sling, 6 inches closed, 1¼ inch object glass	0	15	6	
1	Elegant white metal 3-draw Telescope, whalebone body, 6 inches closed, 1 inch object glass	0	14	0	
4	Ditto, ditto, ditto, with shade .	0	15	6	
5	Ditto, ditto, pearl body, with shade, 1¼ inch object glass . .	0	19	0	
7	Portable white metal 3-draw Telescope, pearl body, 4 inches closed, ¾ inch object glass (very powerful)	0	19	0	
8	Ditto, morocco body, ditto, ditto .	1	1	0	
1	Superior 3-draw, mahogany body, 8 inches closed, 1¾ inch object glass	0	16	0	
2	Ditto, ditto, 10 inches closed, 1¼ inch object glass	1	3	0	
3	Handsome white metal 3-draw ditto, pearl body, white metal slide, 10 inches closed, 1¾ inch object glass (very powerful) . .	1	18	0	
3	Achromatic walking-stick Telescope . . .	1	6	0	
5	Achromatic Ship Telescope, 3-draw, mahogany body . .	0	14	6	
5	Superior ditto, ditto, with shade . . .	0	18	0	
3	Ditto, ditto, 1, 2, or 3-draw, with shade . . .	1	4	0	
9	Ditto, 2-draw, black threaded body, with shade . . .	1	3	0	
4	Best Ship Telescope, 3-draw, leather body, with signal card . .	1	7	0	
5	Best 3-draw, leather body, with straps (very powerful) . .	2	0	0	
7	Military Achromatic Telescope, with leather strap . .	1	5	0	

Astronomical Telescopes.

5	Portable Astronomical Telescope, with terrestrial and celestial eye-pieces, and sun-glass, on brass folding tripod, in neat mahogany case	2	8	0
6	Astronomical Telescope, on brass tripod, with rack adjustment, 15 inches when closed, 1¼ inch object glass, terrestrial and celestial eye-pieces, and sun-glass, in walnut case . . .	3	12	0
7	Ditto, *ditto, 35 inches long, 2 inch* object glass, 2 eye-pieces, &c.	7	10	0

Astronomical Telescopes (continued).

Number.	£.	s.	d.
218 First-class Astronomical Telescope, on brass tripod, rack adjustment, 44 inches long, 2½ inches objective, with terrestrial and celestial eye-pieces and sun-glass, in walnut case . . .	10	10	0
219 Ditto, ditto, ditto, 50 inches long, 2¾ objective . . .	15	0	0
220 Ditto, ditto, ditto, 55 inches long, 3 inch objective . .	18	10	0
221 Ditto, ditto, ditto, 72 inches long, 3¼ inch objective, 1 terrestrial and 2 celestial eye-pieces, and sun-glass	26	0	0
222 Ditto, ditto, ditto, 72 inches long, 3¾ inch objective, 2 terrestrial and 2 celestial eye-pieces, &c.	33	0	0
Extra eye-pieces, with rack slide, for taking solar observations, for any of the above each	1	0	0
Wood Tripod Stand for Terrestrial or Astronomical Telescopes, with horizontal and vertical movement	0	15	0
Superior ditto, ditto	1	13	0

	9*s.*	12*s.* per doz.
Optical Prisms, for scientific amusement or research	4½	5½ inches.

Phantasmagoria Lanterns.

	each 2*s.* tin.	2*s.* 8*d.* japanned.			
0 Phantasmagoria Lantern, with lamp,					
1 Ditto, ditto, japanned . .		each	0	3	8
2 Ditto, ditto, ditto . . .		,,	0	5	3
3 Ditto, with superior lamp, 2 inch lens . .		,,	0	7	3
4 Ditto, ditto, 2½ inch lens . .		,,	0	10	0
5 Best ditto, ditto, 2½ inch lens . .		,,	0	13	6
6 Ditto, and best lamp, 3½ inch lens . .		,,	1	9	0
7 Ditto, ditto, 3½ inch lens .	1 19 0	to	3	0	0
8 Ditto, ditto, 4 inch lens, with rack adjustment			3	10	0
9 Pair of best Lanterns, with apparatus for dissolving views, best lamps, &c. from 6 10 0		to	10	0	0
Microscope to attach to No. 7 or 8			1	6	0
Oxy-Hydrogen Gas Lanterns, with gas apparatus complete .		from	15	10	0

Slides.

	£.	s.	d.		£.	s.	d.
Slides for No. 0 and 1 . . . per dozen.	0	2	6	to	0	3	6
Slides for No. 2 ,,	0	5	6	to	0	8	0
Slides for No. 3 ,,	0	10	0	to	0	17	0
Slides for No. 4 ,,	0	14	0	to	1	10	0
Slides for No. 5, framed . . . ,,	1	7	0	to	2	0	0
Slides for No. 6 ,,	2	0	0	to	3	0	0
First-class Slides, beautifully painted, in mahogany frames, 3¼ inch diameter, comprising views, landscapes, natural history subjects, &c. each	0	8	6	to	1	0	0
Chromatropes ,,	0	10	6	to	0	19	0

Opera and Race Glasses.

Portable Single Opera, in japan, with gilt slide . . 7*s.* 9*d.* Ivory . 9*s.* 6*d.*

	Diameter of Object Glass.	With 6 Glasses.									With 12 Glasses.								
		Japan Body.			Japan & Gilt Slide.			Ivory.			Japan.			Japan and Gilt.			Ivory.		
Best Double Achromatic Opera, in Case	Inches. 1¼	£. 0	s. 13	d. 6	£. 0	s. 14	d. 6	£. 1	s. 0	d. 0	£. 1	s. 16	d. 0	£. 1	s. 16	d. 0	£. 2	s. 5	d. 0
Ditto,	1½	1	0	0	1	1	0	1	10	0	2	0	0	2	0	0	2	15	0
Ditto,	1¾	1	4	0	1	5	6	1	16	0	2	8	0	2	8	0	3	5	0
Ditto,	1⅞	1	8	0	1	10	0	2	8	0	2	13	0	2	13	0	3	18	0
Ditto,	2¼	1	15	0	1	17	0	3	0	0	3	8	0	3	8	0	4	15	0
Ditto,	2½	2	2	0	2	5	0	3	7	0	3	17	0	3	17	0	5	8	0
If with Morocco body, 5*s.* more than Japan.																			
Best Double Operas, portable.....		1	1	0	1	3	0	1	11	0	1	19	0	1	19	0	2	12	0

Race and Captain's Glasses.

Best Achromatic Race and Captain's Glasses, in leather cases,

	Each. £.	s.	d.		*Each.* £.	s.	d.
21 lines, 6 Glasses . .	2	12	0	12 Glasses . .	4	0	0
24 ditto, ditto . .	2	17	0	Ditto . . .	4	8	0
26 ditto, ditto . .	3	3	0	Ditto . . .	4	15	0
28 ditto, ditto . .	5	0	0	Ditto . . .	6	15	0

If with Morocco body, 5*s.* extra.

Spectacles.

	£.	s.	d.		£.	s.	d.
Fine Blued Steel Spectacles, from . . . per doz.	0	12	0	to	3	0	0
Periscopic ditto ,,	1	12	0	to	2	0	0
Neat Blued Iron Frame ,,	0	7	6				
Concaves, extra ,	0	6	0				
Pebbles, extra ,,	2	0	0	&	2	10	0

P.S.—A list of Improved Stereoscopes and Photographic Apparatus in preparation.

PATENT MATHEMATICAL DRAWING INSTRUMENTS,

DISTINGUISHED BY THE FOLLOWING IMPROVEMENTS:—

1st.—The joints are formed with plates of hard rolled steel and brass, cut by machinery the required shape. These joints are stronger, more accurate, and work more smoothly than the old cast joints.

2d.—The Compass legs are formed of Tubes; combining lightness, strength, neatness, and uniformity in the "slip up" part.

3d.—The Dividers have all fine hard steel *Needle* points, instead of the three-square iron points formerly used.

4th.—The Drawing Pens are made of the finest tempered steel, (pressed the required shape,) and being *hollow on the inner side*, retain the ink by capillary attraction; enabling the Draughtsman to draw a fine or broad line with the same pen.

N.B. These Instruments received the approval and recommendation of the Council of the Society of Arts, March 28th 1855; and have since been adopted for use in the Government Schools, by the Commissioners of Education.

Patent Drawing Pens.

Number.		*Per Dozen.* £. s. d.
028	Fine hard steel pen, satin-wood handle	0 5 0
029	Fine hard steel pen, with bone handle	0 6 0
030	Fine bright steel pen, Electrum mounts, in bone handle	0 9 6
031	Small fine architect's pen	0 8 0
032	Red ink ruling pen, Electro gilt	0 6 0

Dividers, Brass Joint, (old kind).

	2*s.* 8*d.*	3*s.* 2*d.*	3*s.* 9*d.*	5*s.* 0*d.*	6*s.* 6*d.* per dozen.
66	4	5	6	7	8 inch.

Patent Dividers, (Brass).

		7*s.*	8*s.*	9*s.* 6*d.* per dozen.
010	Patent brass joint divider	5	6	7 inch.
	(*See woodcut* 014.)			

012 Patent steel joint divider, turned cheeks, hard needle points.

9*s.*	10*s.*	11*s.*	13*s.* per dozen.
4	5	6	7 inch.

		15*s.*	20*s.* per dozen.
013	Ditto, ditto, with Octagon legs	5	6 inch.

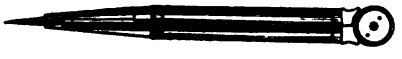
Number.

018 Patent hair divider, *5* inch, 33*s.* per dozen.

052 Patent divider for the pocket, with turn-in legs.
14*s.* per dozen.
5 inch (only three inches when closed).
(*See woodcut* 053.)

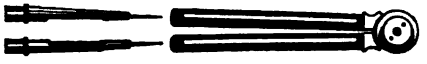
Best Electrum Dividers.

014 Patent divider, steel joint, turned cheeks, hard needle points.
16*s.* 18*s.* 20*s.* per dozen.
5 6 7 inch.



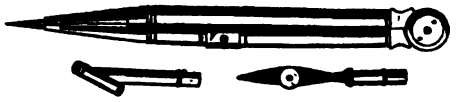
21*s.* 30*s.* per dozen.
015 Ditto, ditto, with octagon legs *5* 6 inch.
39*s.* per dozen.
020 Patent hair divider *5* inch.

053 Patent divider for the pocket, 20*s.* per doz.
with turn-in legs, *5* inch.



Three Point Sets.

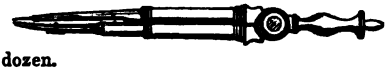
096 Patent steel joint compass, (brass,) with pen point and pencil point.
21*s.* 24*s.* per dozen.
5 6 inch.



32*s.* 34*s.* per dozen.
097 Ditto, ditto (in Electrum) *5* 6 inch.
13*s.* 14*s.* 6*d.* per dozen.
Brass joint three point sets (old kind) *5* 6 inch.

Bow Pens, &c.

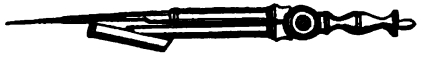
110 Patent brass bow pen, fine needle point, 18*s.* per dozen.



111 Ditto, ditto, in Electrum, 21*s.* per dozen.

112 Patent brass bow pencil, fine needle point, 18*s.* per doz.

113 Ditto, ditto, in Electrum, 21*s.* per dozen.

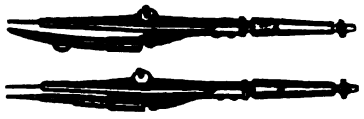


222 Patent steel spring divider, fine needle points, Electrum handle, 15*s.* per dozen.



0223 Patent steel spring bow pen, ditto, 17*s.* per dozen.

0224 Ditto, ditto, bow pencil ditto, 17*s.* per dozen.

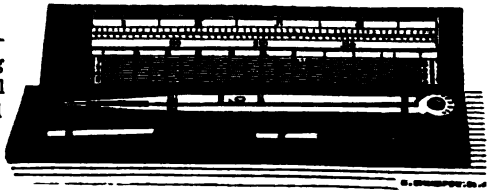


Cases of Patent Drawing Instruments.

PULL-OFF AND FISH SKIN CASES.

Each.

0214 5 inch covered cardboard case, containing brass compass, pencil point, pen point, and patent scale. 1*s.* 6*d.*



Number. £ *s.* *d.*

075 5 inch pull-off case, containing compass, pen point, and pencil point 0 1 9



0211 Leather pull-off case, containing 5 inch steel joint compass, pen point, pencil point, hand pen, and 6 inch box-wood scale . 0 2 6

0136 Fish skin case, containing 6 inch steel joint compass, divider, pen and pencil points, drawing pen, and box-wood scale . . 0 4 9

088 Ditto, ditto, with ivory scale 0 6 3

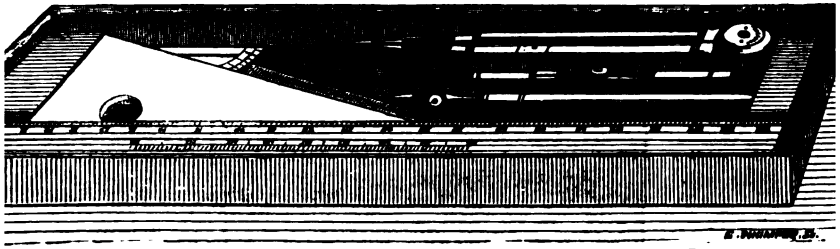
088 Ditto, ditto, Electrum instruments, and ivory scale . . 0 8 0

082 Fish skin case, containing 6 inch steel joint compass, divider, pen and pencil points, drawing pen, bow pen, pencil, ivory scale, ebony parallel, and brass protractor 0 9 6

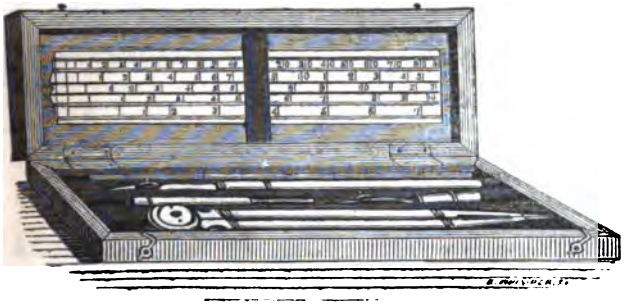
083 Ditto, ditto, Electrum instruments, ivory scale, ivory parallel, and Electrum protractor 0 14 6

Patent Instruments, in Flat Mahogany or Cedar Cases.

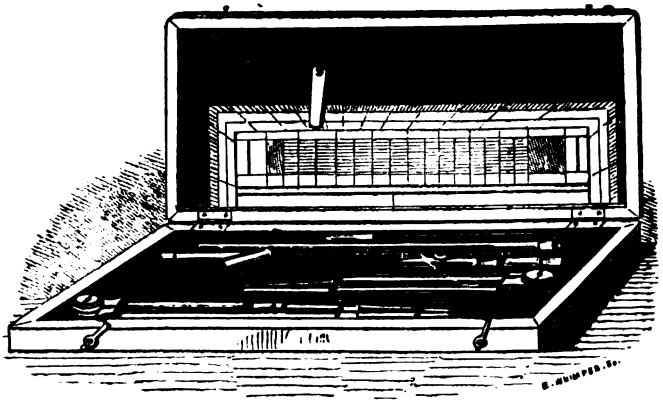
0123 Society of Arts set;—viz, 12 inch cedar case, containing 6 inch steel joint compass, pen and pencil points, set square, and 12 inch box rule divided 0 3 0



nber.		£	*s.*	*d.*
221	12 inch cedar case, (arranged by W. H. Hyett, Esq., Painswick,) containing 6 inch steel joint compass, pen and pencil points, hand pen, set square bevilled edge, protractor, and 12 inch box scale with extra divisions and diagonal . .	0	3	6

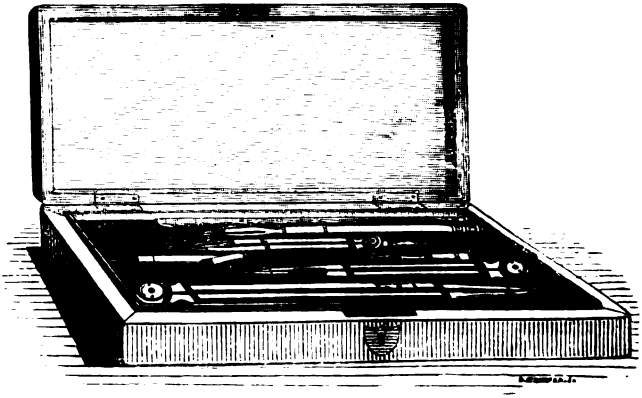


177	Polished cedar case, containing 6 inch steel joint compass, pen point, pencil point, hand pen, pencil, and box-wood scale . .	0	3	6
173	Polished mahogany case, containing 6 inch steel joint compass, pen and pencil points, dotter, hand pen, and 6 inch scale . .	0	4	0



161	Polished mahogany case, containing 6 inch steel joint compass, pen point, pencil point, divider, hand pen, pencil, and box-wood scale and protractor	0	5	3
134	The same instruments in mahogony snap case, with box scale, ebony parallel, and brass protractor . . .	0	6	9

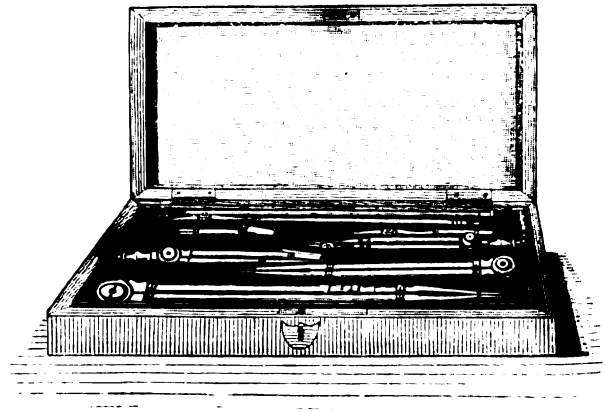
Number.	*Each.* £. s. d.
0102 Mahogany snap case, containing 6 inch Electrum compass, divider, pen and pencil points, hand pen, ivory scale, and ebony parallel	0 8 6



0171 Mahogany snap case, containing brass 6 inch steel joint compass, pen and pencil points, divider, bow pen, hand pen, pencil, box scale, ebony parallel, and brass protractor . . .	0 8
0194 Ditto, with Electrum instruments, ivory scale, ebony parallel, and Electrum protractor	0 12
0157 Mahogany snap case, containing brass 6 inch steel joint compass, pen and pencil points, divider, bow pen, bow pencil, hand pen, pencil, box scale, ebony parallel, and brass protractor . .	0 10

(*See woodcut* 0171.)

0196 Mahogany lock case, with tray, containing Electrum 6 inch compass, pen and pencil points, divider, bow pen, hand pen, pencil, ivory scale, Electrum protractor, and ebony parallel .	0 13 6



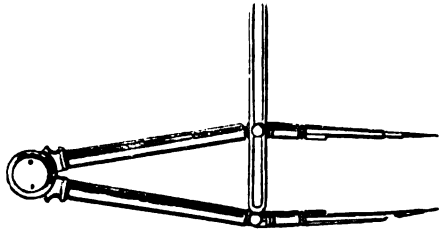
0132 Mahogany lock case, with tray, containing brass 6 inch steel joint compass, pen and pencil points, divider, bow pen, bow pencil, hand pen, pencil, ivory protractor, scale, and ebony parallel .	0 15 0

Number.		*Each.* £.	*s.*	*d.*
)118	Mahogany lock case, containing best Electrum 6 inch compass, divider, pen and pencil points, bow pen, bow pencil, hand pen, ivory protractor with scale, and ivory parallel . . .	0	18	6
0197	Ditto, ditto, with lengthening bar extra	1	0	0
*0137	Mahogany lock case, containing best brass double jointed compass, divider, pen and pencil points, bow pen, bow pencil, hand pen, lengthening bar, ivory protractor with scale, and ivory parallel .	1	4	6
*0138	Ditto, ditto, with best Electrum instruments . . .	1	8	0



'0226	Mahogany lock case, containing best Electrum double jointed compass, divider, pen point, pencil point, bow pen, bow pencil, lengthening bar, hand pen, proportional compass, ivory protractor with scale, and ivory parallel . . .	1	16	0
'0188	Ditto, ditto, ditto, with the proportional compass fully divided, and in best case, silk-velvet lined	2	5	0

* N.B.—To the double joint Compass in these cases * may be attached if required, an improved "steady bar," 4*s.* extra; by which the following advantages are obtained:—



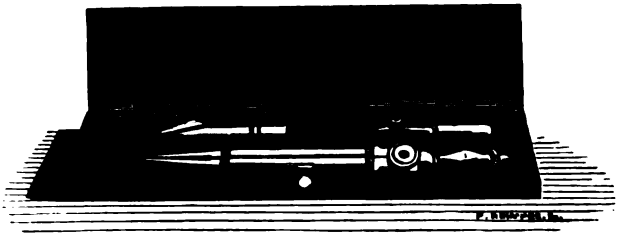
1. All *spring* is prevented in the points, so that the *smallest* circle can be drawn with the greatest accuracy.

2. The draughtsman, in describing circles, or measuring, can *fix* his compass leg by the Screw, at the required width, without danger of its altering by use, or otherwise.

The Compasses may be used either with, or without the bar, as may be required: the bar not being wanted when a large circle is drawn.

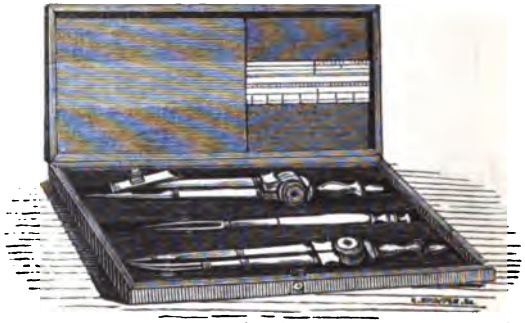
Each.

Cases of Portable Drawing Instruments.



Number. £. s. d.

0220 Neat leather snap case, containing 3 inch Electrum bow divider, with pen and pencil points . . 0 3 6



0150 Leather snap case, silk-velvet lined, containing Electrum bow pen, bow pencil, small hand pen, and ivory 3 inch scale . 0 7 9

0170 The same case, with Electrum bow divider, (as in 0220,) pen and pencil points, small hand pen, and 3 inch ivory scale . 0 7 9

Best London-made Drawing Instruments.

0189	Best Electrum trammel compass, with pen and pencil points, in leather case, silk-velvet lined	0	16 0
192	Ditto, ditto, with tangent screw	1	0 0
937	Set of fine steel spring bows, divider, pen, and pencil, in neat leather case, silk-velvet lined per set	0	12 6
938	Best brass pillar compass, in case	0	13 6
939	Best Electrum ditto, in case	0	16 6
1061	Best brass Napier compass, in case	0	16 0
1012	Best Electrum ditto	0	18 0
1010	Best Electrum tube compass, in case	1	5 0
195B	Best brass proportional compass, in case (Swiss) . . .	0	7 6
195	Best Electrum ditto (Swiss)	0	8 0
941	Ditto, ditto, extra finished, and fully divided . . .	0	16 0
205	Very superior ditto, with rack adjustment . . .	1	1 0
211	Fine steel drawing pen (small) with ivory handle . per dozen	1	4 0
193	Ditto, ditto, (6 inch) ditto „	0	19 0
55	Best Electrum drawing pen, lift-up nib . . „	1	12 0
199	Best ivory handle wheel pen, with three dotters (Swiss) „	2	4 0

Best London-made Drawing Instruments (continued).

Number.	Each. £.	s.	d.
10 Best steel road pen, ivory handle	0	8	0
1 Best sector-joint divider, 5 inch, brass, 2s. 9d. Electrum, 3s. 6d.			
0 Ditto, hair divider ,, brass, 5s. Electrum, 6s.			
0 Best Electrum double jointed bow pencil, fine needle point . .	0	6	9
1 Ditto, ditto, bow pen ditto . .	0	6	9
5 Best brass sector-joint 4-point set, viz., 6 inch compass, pen point, pencil point, and lengthening bar	0	12	6
7 Best Electrum ditto, ditto, ditto . . .	0	14	6

Cases of Best London-made Sector-Joint Instruments.

Best 6 inch Electrum Compass, divider, pen point, pencil point, lengthening bar, ivory handle pen, bow pen, ivory protractor, and ivory parallel, in mahogany lock case	1	18	0
Ditto, ditto, with bow pencil extra, and hair divider, in best rose-wood case, silk-velvet lined	2	10	0
Best 6 inch double jointed Electrum Compass, with loose needle points, hair divider, pen point, pencil point, lengthening bar, double jointed needle point bow pen, and bow pencil, ivory handle pen, ivory parallel, and full divided ivory protractor, in rose-wood case, silk-velvet lined	3	15	0
Ditto, ditto, with extra bar, needle holder, set of 3 fine steel spring bows, wheel pen with dotters, and best ivory sector .	5	0	0

Perambulators, or Mapmeters, in leather case, each, small, 2s. 6d., large, 3s.

31 Improved Drawing Pins, warranted screwed steel needle points per gross	0	4	0
32 Superior ditto, ditto, . . ,,	0	6	6
33 Best Electrum ditto, ditto, . . ,,	0	9	0
00 Brass Crayon Holders, 5½ inches long . . . ,,	1	7	0
01 Polished Octagon ditto, ... ,,	1	12	0
03 Best Electrum ditto, ditto, . . per dozen	0	6	0
Invoice Binders per gross	0	9	0
25 Improved large wood Divider, for black board chalk drawing, with brass tightening screw. each	0	4	6

Scales, Protractors, Curves, &c.

0 5 and 6 inch box-wood plotting scales . . per dozen	0	3	0
1 12 inch box-wood scale, with divisions on both edges and line of chords per dozen	0	5	0
2 12 inch ditto, ditto, with extra divisions and diagonal scale on the back per dozen	0	7	6
3 12 inch plain pear-wood Flat Rulers for drawing . ,,	0	1	8
4 Ditto, ditto, superior . . . ,,	0	2	6
5 Superior box-wood Gunter's Scale, 12 inch, 13s. 6d. 24 inch ,,	0	18	0
6 12 inch best box-wood Chain Scale 10 to 60 . . ,,	1	1	0
7 12 inch ditto, Architect's . . ,,	1	1	0
8 12 inch ditto, Plotting Scale . . ,,	1	1	0

Scales, Protractors, Curves, &c., (continued).

Number.			£	*s.*	*d.*
309	12 inch improved Universal Scale . . .	per dozen	1	6	0
310	6 inch box-wood Protractor (narrow) . . .	,,	0	5	0
311	6 inch ditto, (broad) . . .	,,	0	14	0
312	Box-wood Protractor, with moveable brass arm, for taking angles	,,	0	9	6
313	6 inch box-wood Sector	,,	0	13	6
314	Horn Protractors, various sizes, at 2*s.*, 3*s.*, 4*s.*, 5*s.*, 6*s.*, per dozen.				
315	Brass Protractor, 3½ inch	per dozen	0	5	3
316	Superior ditto	,,	0	8	0
317	Brass Circular Protractor, 3¾ inch . . .	,,	1	0	0
318	Superior brass 6 inch Circular Protractor . .	each	0	12	6
319	Best ditto, engraved and divided to 20 minutes . .	,,	1	4	0
319A	Best 6 inch Protractor, with folding arms, divided on silver to 1 minute	each	5	8	0
320	Box-wood Marquois Scales	per set	0	6	0
321	Pear-wood or mahogany Set Squares, various angles and sizes, per dozen, 1*s.* 9*d.*, 2*s.* 6*d.*, and 3*s.* 6*d.*				
322	Pear-wood Curves, assorted, various sizes and kinds, per doz. 5*s.* 6*d.* and		0	7	

		11*s.*	16*s.*	22*s.*	27*s.*	per doz.
323	T Squares, in mahogany or satin-wood,	12	18	24	30	inches.

		14*s.*	18*s.*	24*s.*	33*s.*	42*s.*	per dozen.
324	Ditto in pear-wood,	12	18	24	30	36	inches.

325 Ebony Parallels.

5*s.* 6*d.*	11*s.* 6*d.*	15*s.*	19*s.*	23*s.*	28*s.*	36*s.* per doz.
6	9	12	15	18	21	24 inches.

326 Satin-wood Rolling Rules, divided on one edge.

3*s.* 4*d.*	4*s.* 6*d.*	5*s.* 6*d.*	6*s.* 9*d.* each.
9	12	15	18 inches.

327 Ebony Rolling Rules.

3*s.* 3*d.*	4*s.* 9*d.*	6*s.* 6*d.*	8*s.*	10*s.* each.
6	9	12	15	18 inches.

328 Ditto with ivory edges.

5*s.*	7*s.* 6*d.*	10*s.*	12*s.* 6*d.*	15*s.* each.
6	9	12	15	18 inches.

329	Best London-made Pentagraph, brass, 1 foot . .		each	4	5	0
330	Ditto, ditto, ditto, ,,	18 inches .	,,	5	5	0
331	Ditto, ditto, ditto, ,,	2 feet . .	,,	6	0	0
332	Ditto, ditto, ditto, ,,	30 inches .	,,	7	5	0

Ivory Scales, &c.

333	6 inch ivory Plotting Scale . . .	per dozen	0	14	6
334	Best ditto, ditto, ditto	,,	0	17	0
335	6 inch ivory Protractor	,,	1	10	0
336	6 inch best ditto, fully divided	,,	1	19	0
337	Best 6 inch ivory Sector, Electrum joint . . .	,,	2	5	0
338	Best 6 inch ivory Parallel, Electrum bars . .	,,	1	10	0
339	12 inch best ivory Chain Scale, divided 10 to 60 . .	,,	3	4	0
340	Ditto, ditto, Architect's Scale . . .	,,	3	4	0
341	Ditto, ditto, Plotting Scale	,,	3	4	0
342	Ditto, ditto, Universal Scale	,,	3	12	0

JRVEYING, MINING, AND NAUTICAL INSTRUMENTS.

Land Chains, warranted correct.

mber.		£.	s.	d.
3	Surveyor's Chains, superior make, with strong brass handles and marks, three-sawed oval rings each	0	10	0
	No. 8 Wire. 4 Pole ,,	0	9	3
4	Ditto, with two-sawed oval rings, brass handles, and marks.			
	7s. 3d. *6s. 3d.* *5s. 3d.* each.			
	No. 8 9 10 Wire. 4 Pole.			
5	Ditto, with round rings, brass handles, and marks.			
	5s. 6d. *4s. 6d.* *4s. 0d.* *3s. 4d.* *3s. 0d.* each.			
	No. 8 9 10 11 12 Wire. 4 Pole.			
6	Ditto, with iron handles.			
	5s. 0d. *4s. 0d.* *3s. 6d.* *3s. 0d.* *2s. 6d.* each.			
	No. 8 9 10 11 12 Wire. 4 Pole.			
	Land Chain Arrows per set	0	0	10
6A	14 feet sliding mahogany Levelling Staves, painted figures each	3	3	0

Brass Cross Staffs, with Sights, in Cases.

		4s.	*5s. 6d.*	*7s.*	*8s. 6d.*	*10s.* each.
7	Brass Cross Staff, No.	1	2	3	4	5
		12s. 6d.	*13s. 6d.*	*15s.*	*17s.* each.	
8	Ditto with Compass, No.	2	3	4	5	
9	Superior ditto, with Compass, finely divided dial, adjustment, &c., No. 5, 2					5 0

Spirit Levels.

10	Mahogany Spirit Levels (proved tubes).						
	1s. 10d.	*2s.*	*2s. 3d.*	*2s. 6d.*	*3s.* each.		
	6	8	9	10	12 inches.		
11	Superior rose-wood Levels, with strong brass plates.						
	2s. 2d.	*2s. 6d.*	*2s. 9d.*	*3s.*	*3s. 10d.* each.		
	6	8	9	10	12 inches.		
12	Ditto, ditto, brass tipped at the bottom.						
	2s. 4d.	*2s. 9d.*	*3s.*	*3s. 3d.*	*4s. 2d.* each.		
	6	8	9	10	12 inches.		
13	Ditto, ditto, with strong brass plated bottom.						
	2s. 8d.	*3s. 3d.*	*3s. 6d.*	*3s. 9d.*	*4s. 9d.* each.		
	6	8	9	10	12 inches.		
14	Improved rose-wood Level, with sights and cross sights.						
		4s. 6d.	*5s. 6d.*	*6s. 6d.* each.			
		9	10½	12 inches.			
15	Ditto, ditto, on brass socket and arm, with adjusting screws,						
		18s.	*22s.* each.				
	to fix on staff	10½	12 inches.				
					23s.	*26s.* each.	
16	Ditto, ditto, with mounting and staff complete,				10½	12 inches.	
17	Brass Spirit Levels, in pull-off case.						
	2s. 6d.	*3s. 3d.*	*4s.*	*5s.*	*6s. 6d.*	*8s. 6d.* each.	
	4	5	6	8	10	12 inches.	
18	Brass Road Level, with sights, and graduated arc for taking altitudes, in mahogany case . . . each					1	1 0
19	Best Level Tubes, proved, assorted sizes to 5 inches . per dozen					0	8 0
10	Ditto, ditto, assorted 5 to 8 inches . ,,					0	13 0
11	Level Tubes, (not proved,) assorted sizes . . ,,					0	5 0

Spirit Levels (continued).

Number.		Each. £. s. d.
362	10 inch Gravat, or Dumpy Level	12 10 0
363	Ditto, with Compass	14 0 0
364	12 or 14 inch ditto, without Compass	14 10 0
365	14 inch with Compass	21 0 0
366	5 inch Theodolite, with clamps and tangent screws	19 0 0
367	Best ditto, divided on silver	22 10 0
368	Ditto, ditto, with spring verniers, as Troughton and Sims's	26 0 0
369	6 inch Theodolite, plain	22 10 0
370	Best ditto, divided on silver to 20 seconds	27 0 0
371	Ditto, ditto, with rising compass box	30 0 0
372	Optical Squares, at 16*s.* and 24*s.* each.	
373	Artificial Horizons, from 45*s.* each.	
374	3 inch Prismatic Compass, plain	2 5 0
375	Best ditto, with silver ring	3 10 0
376	Best Prismatic Azimuth Compass, with 6 inch card, silvered ring, divided to 20 minutes, in strong mahogany box (East India Company's pattern)	6 5 0
377	3 inch Mining Compass, floating dial with stop, in mahogany case, with brass folding sights.	0 10 0
378	5 inch Mining Compass, mahogany case, with silvered dial engraved, and edge-bar needle, agate cap	1 0 0
379	Superior 4 inch ditto, with folding sights, and two levels	2 10 0
380	4 feet mahogany jointed stand for ditto, with ball and socket joint	1 15 0
381	Best 2¾ inch Brass Compass, silvered dial, agate cap needle, with folding sights, in leather case	1 10 0

Quadrants.

382	Ebony Quadrant, in oak case	1 13 0
383	Single Tangent, stump and block	1 17 0
384	Double Tangent	2 4 0
385	Ditto, Vertical	2 5 0
386	Single Tangent, fixed adjustment, and six shades	2 3 0
387	Handle Quadrant, fixed adjustment	3 10 0
388	Vertical ditto	3 15 0

Metal Quadrants.

		42*s.*	45*s.*	48*s.* each.
389	Single Tangent	3	5	6 shades.
390	Ditto, with telescopes			2 15 0
391	Ditto, with swing magnifier and telescopes, divided to half-minutes			3 0 0
392	Superior ditto, seven shades, and ivory arch			4 15 0
393	Ditto, ditto, and silver arch			5 0 0

Sextants.

394	Flat limbs, ivory arch divided to half-minutes, with telescopes	5 6 0
395	Ditto, silver arch divided to 15 seconds, rising piece, with telescopes	7 0 0
396	Ditto, ditto, to 10 seconds	7 5 0
397	Best diamond, triangular or oval limbs, divided to 15 seconds	8 15 0
398	Ditto, ditto, to 10 seconds	9 5 0
399	Best Pillar Sextant, divided on silver to 10 seconds	16 0 0
400	Best Pocket Sextant in case	3 8 0
401	Ditto, with telescope	5 0 0

Ship Compasses.

	£.	s.	d.
case, with wood bowl.			
's. 5s. 6d. 6s. 3d. 7s. 7s. 9d. each.			
' 8 9 10 11 inch.			
rith brass bowl.			
'. 11s. 12s. 6d. 14s. 15s. 6d. each.			
8 9 10 11 inch.			
If with agate cap needles, 1s. extra.			
Storm Compass each	1	6	0
transparent ditto, bell cap storm fly . . „	2	2	0
e Dipping Needle Transparent Compass . „	3	0	0
43s. 45s. each.			
e Dipping Needle Box Compass 10 11 inch.			
Hanging Compass each	1	2	0
24s. 26s. each.			
tude Compass 10 11 inch.			

Barometers.

	Each.		
red Portable Barometer, in polished oak . . .	0	9	3
t "Model Barometer," in mahogany or rose-wood, with ivory and thermometer	1	2	0
ny wheel Barometer, superior make, 8 inch dial . .	1	0	0
ditto, 10 inch . .	1	6	0
22s. 32s. each.			
od ditto, ditto, 8 10 inch.			
e-wood, ditto, (moulded pattern,) 8 inch . . .	1	12	0
e-wood Barometer, inlaid with pearl . . .	2	10	0
Barometer, with brass arm and gymbals . . .	1	16	0
itto, superior make	2	5	0
ed Simpiesometer, 20 inch	2	8	0
ditto, 10 inch, ivory, in leather case . . .	2	10	0

acchrometers, with ivory scale, in tin case, per dozen 40s.
ieters, ditto, per dozen 40s.

Thermometers.

od Thermometers,
18s. 6d. 14s. 20s. 32s. per dozen.
6 8 10 12 inch.
to, ditto, polished, with bevil-edge, 8 inch, 21s. per dozen.
d Thermometers.
21s. 26s. 32s. 34s. per dozen.
8 10 12 14 inch.
3s. 3s. 8d. 5s. each.
ale ditto, in leather case 4 6 8 inch.
3s. 3s. 4d. 4s. each.
ounted on ebony 4 6 8 inch.
rved Thermometers, under glass shade, 6s. 6d. to 50s. each.
istering Thermometers, (night and day,) 10 inch, with magnet, 9s. 6d. each.
12s. 13s. 15s. 6d. each.
t ditto, ditto 8 10 12 inch.
18s. 14s. 16s. 6d. each.
a japanned case 8 10 12 inch.
Registering Maximum Thermometers 18s. each.

Thermometers (continued).

Number.		Each. £. s. d.
428	Copper case Thermometers. 38s. 43s. 50s. 54s. per dozen. 8 10 12 14 inch.	
429	Ditto, ditto, enamelled tubes. 43s. 48s. 62s. 65s. per dozen. 8 10 12 14 inch.	
430	Standard Thermometers, 10s., 12s., and 16s. each.	

Urinometers.

431	Urinometer, with ivory scale, in leather sheath	0 3 4
432	Ditto, with glass jar	0 5 6
433	Urinometer, glass jar, and ivory thermometer, in leather case	0 12 0
433A	Ditto, ditto, complete, with glass stoppered bottles, spirit lamp, test tubes, and dropping tube, in leather case with tray	0 19 6

BOX AND IVORY RULES.

Registered Spirit Level Rules.

434	Registered 2 feet box-wood bevil-edge rule, polished, with spirit level, and graduated scale on the joint for taking angles	0 3 9
435	Ditto, ditto, with one brass edge	0 4 6
436	Carpenter's or Builder's ditto, with brass slide	0 5 6
437	Routledge's Engineer's rule, with level and graduated scale	0 7 0
438	Ditto, ditto, with brass edges	0 8 0
439	Registered 2 feet 4-fold rule, with level and graduated scale	0 7 6
440	Ditto, ditto, with brass slide	0 8 0

Registered Sun Dial Rules.

441	Registered 6 inch rule, with sun dial and compass 5s. 6d. 6s. each.	0 4 0
442	Ditto, 1 foot and 2 feet rule, with sun dial, compass, and graduated scale	
443	Ivory 6 inch rule, with sun dial and compass	0 7 9

N.B.—These rules will be found of great service to Carpenters, Builders, Architects, and others who have to work at a distance from home. In a rule of the ordinary thickness, containing the usual divisions, is comprised, 1st, A graduated scale for taking angles; 2d, A sun dial, (which can be made to any latitude,) showing the true time of day; 3d, A compass, by which the desired site of a house can be determined, or which will answer the various purposes for which a compass is used.

Best Polished Box-wood Rules.

FIRST QUALITY.

		Per dozen.
444	2 feet 2-fold, best arch joint, brass pin holes, and iron tips	0 16 6
445	Ditto, ditto, with bevil-edge	0 18 0
446	Ditto, new joint, ditto	0 16 6
447	Extra thin arch joint, ditto	0 18 6
448	Extra thin new joint, ditto	0 18 6
449	Ditto, arch joint, with brass edges	1 10 0
450	Ditto, new joint, with brass edges	1 10 0
451	Solid brass thin elastic arch joint rules	1 7 0
452	Ditto, ditto, with ribs	1 14 0

Best Polished 2 feet 2-fold Slide Rules.

	Per dozen. £.	s.	d.
et arch joint, with brass slide	1	8	0
il-edge, ditto, ditto	1	9	6
et new joint, ditto	1	8	0
et arch joint slide rule, with one brass edge, and one bevil-edge	2	3	0
to, ditto, with two brass edges	2	3	0
to, ditto, with inner and outer edges brass bound	2	19	0
et Routledge's Engineer's slide rules	2	3	0
to, ditto, with brass edges	2	19	0
ks for ditto	0	4	0
et Garrett's improved Engineer's slide rules, with book	3	3	0
thorne's slide rule	3	3	0

Best Polished 4-fold Arch-joint Rules.

et 4-fold arch-joint thin rule,	⅜ inch wide	1	0	0
to,	ditto, 1 inch wide	1	2	0
to,	ditto, 1¼ inch wide	1	4	0
to,	ditto, 1½ inch wide	1	7	0
to,	ditto, 1¾ inch wide	1	10	0
to,	ditto, 1½ inch wide, with brass slide	2	10	0
utledge's 4-fold rule, with brass slide		3	10	0
pwright's Bevils, 12 inch		0	16	6

N.B. All three feet rules 3*s.* per dozen more than 2 feet.

Box-wood Rules.

ORDINARY QUALITY.

et 2-fold square joint, iron tips		0	5	9
to, arch joint „		0	10	0
to, new joint, brass bitted and iron tips		0	12	6
et 2-fold square joint, with brass slide		0	12	0
et 2-fold arch joint, ditto		0	16	0

4-fold Rules.

et 4-fold inside joint,	⅜ inch wide	0	8	6
to, square joint,	1 inch wide	0	14	0
to, arch joint,	1¼ inch wide	0	15	6
to, ditto,	1½ inch wide	0	18	6

et rules 2*s.* 6*d.* per dozen extra.

Ivory Rules.

ot 4-fold ivory rule (inside joint)	⅜ inch wide	0	19	0
tto, ditto, ditto,	¾ „	1	12	0
eet 4-fold ditto, ditto,	¾ „	2	12	0

Ivory Rules (continued).

Number.		Each. £. s. d.
484	1 foot 4-fold arch joint ivory rule, ¾ inch wide	0 3
485	2 feet 4-fold ditto, ditto, ditto	0 5
486	2 feet 4-fold German silver arch joint ivory rule, 1 inch wide	0 7
487	Ditto, ditto, ditto, 1¼ „	0 9
488	Ditto, ditto, ditto, 1½ „	0 10
489	Ditto, ditto, ditto, 1¾ „	0 13
490	2 feet 4-fold ditto, 1 inch wide, with bevil edges	0 10
491	Very superior ditto, with German Silver (outside joints)	0 14
492	12 inch 3-fold ivory rule, with tables, and sliding gauge, for iron	0 8
493	Routledge's 2 feet ivory rule, with German silver joint and slide	1 5

Surveyor's Measuring Tapes.

IN ASS SKIN CASES,

Brass Edges, with Folding Handles and Rollers.

No. 500.		Per dozen. £. s. d.
	30 feet	0 16 0
	40 feet	0 17 6
	50 feet	0 19 6
	66 feet	1 1 0

IN FANCY LEATHER CASES,

Brass Edges, with Folding Handles and Rollers.

No. 501.		Per dozen £. s.
	30 feet	0 16
	40 feet	0 17
	50 feet	0 19
	66 feet	1 1

IN PATENT LEATHER CASES,

With Folding Handles, Brass Plates, and Rollers.

No. 502.		
	30 feet	0 16 6
	33 feet	0 17 6
	40 feet	0 19 0
	50 feet	1 1 6
	60 feet	1 4 0
	66 feet	1 5 0
	80 feet	1 9 0
	90 feet	1 13 0
	100 feet	1 15 0

IN PATENT LEATHER CASES,

Folding Handles, &c., With superfine Linen Tape.

No. 503.		
	30 feet	0 19
	33 feet	1 0
	40 feet	1 2
	50 feet	1 5
	60 feet	1 8
	66 feet	1 10
	80 feet	1 14
	90 feet	1 19
	100 feet	2 2

All Tapes, if with Decimals, 30 and 40 feet, 2*s.* per dozen extra.
Ditto, ditto, 50, 60, and 70 feet, 4*s.* per dozen extra.
Timber Measure, 30 and 40 feet, 5*s.* per dozen extra.
Ditto, ditto, 50, 60, and 70 feet, 7*s.* per dozen extra.
Foreign Measures, the same price as decimals.

In Best Patent Leather, or

ASS SKIN CASES,

Folding Handles, &c., &c. Superior Finish—Super Tape.

Patent Leather, 504 Ass Skin, No. 505.		Each. s. d.
	30 feet	3 3
	33 feet	3 6
	40 feet	3 9
	50 feet	4 3
	60 feet	4 9
	66 feet	5 0
	70 feet	5 6
	80 feet	6 0
	90 feet	6 6
	100 feet	7 3

In Superior

BLACK LEATHER CASES,

Folding Handles, &c., &c.,

STRONG RAILWAY TAPE,

EXTRA WIDTH.

No. 506.		Each. s.
	30 feet	3
	33 feet	3
	40 feet	4
	50 feet	4
	60 feet	5
	66 feet	5
	80 feet	6
	90 feet	6
	100 feet	7

DITTO, DITTO, AS 504 & 505,

WITH

Improved Multiplying Action.

(*Strong.*)

	Each. s.	d.
30 feet	4	9
33 feet	5	0
40 feet	5	3
50 feet	5	9
60 feet	6	3
66 feet	6	6
70 feet	6	9
80 feet	7	3
90 feet	8	0
100 feet	9	0

REGISTERED

PRESSED SOLID LEATHER CASE,

Folding Handles, &c., &c.

Superior Finish, Improved Tape.

Warranted not to Stretch.

No. 508.

	Each. s.	d.
30 feet	3	0
33 feet	3	3
40 feet	3	6
50 feet	4	0
60 feet	4	3
66 feet	4	6
80 feet	5	6
100 feet	6	6

509 Improved Polished Leather Cases, with smooth round edges, (Scotch style, superior linen Tape,) same price as 508.

510 Patent "Vulcanite Cases," without seam, and not affected by heat or moisture, same price as 508 and 509.

Measuring Tapes without Cases.

OILED COTTON TAPES,

With Rings.

No. 511.

	Per dozen. £.	s.	d.
30 feet	0	5	6
40 feet	0	6	6
50 feet	0	8	0
66 feet	0	10	0
80 feet	0	14	0
100 feet	0	17	0

BEST RIBBED LINEN TAPES,

With Rings.

No. 512.

	Per dozen. £.	s.	d.
30 feet	0	10	0
40 feet	0	12	0
50 feet	0	14	0
66 feet	0	17	6
80 feet	1	1	0
100 feet	1	8	0

Patent Self-acting Tapes.

IN PLAIN BRASS CASES.

No. 513.

	Per dozen. £.	s.	d.
3 feet	0	7	6
6 feet	0	11	0
9 feet	1	1	0
12 feet	1	5	0
18 feet	1	16	0
24 feet	2	8	0

IN PLAIN BRASS CASES,

With Rollers and Stop.

No. 515.

3 feet	0	19	0
4 feet	1	2	0
5 feet	1	4	0
6 feet	1	6	0
9 feet	1	15	0
12 feet	2	2	0
18 feet	2	14	0
24 feet	3	6	0
33 feet	4	10	0

IN PLAIN BRASS CASES,

With Stop.

No. 514.

	Per dozen. £.	s.	d.
3 feet	0	14	6
6 feet	1	2	0
9 feet	1	13	0
12 feet	1	16	0
18 feet	2	8	0
24 feet	3	0	0

PLAIN GERMAN SILVER CASES.

No. 516.

3 feet	0	14	6
6 feet	1	2	0
9 feet	1	13	0
12 feet	2	2	0

PLAIN GERMAN SILVER CASES,

With Stop and Rollers.

No. 517.

3 feet	1	7	0
6 feet	1	16	0
9 feet	2	11	0
12 feet	3	6	0

MOROCCO CASES,
With Rollers.

		Per dozen. £.	s.	d.
No. 518.	3 feet	1	2	0
	6 feet	1	10	0
	9 feet	1	19	0
	12 feet	2	6	0

GERMAN SILVER CASES,
With Pearl Sides.

519	3 feet	1	13	0
	6 feet	2	11	0

SPRING TAPE, IN NEA

MOROCCO POCKET-BO

With Leaves, Ever-Point, &

		Pe £
520	3 feet	1
	6 feet	1
	12 feet	1

Small Wind-up Tape Measures.

NARROW WIDTH.

IN PLAIN BRASS CASE,
Stiff Handle.

		Per dozen. £.	s.	d.
521	6 feet	0	4	6
	12 feet	0	5	0
	18 feet	0	5	6

IN ASS SKIN CASE,
Stiff Handle.

		Per do £.	s.
522	6 feet	0	4
	12 feet	0	5
	18 feet	0	5

IN SUPERIOR BRASS CASE,
Ring Handle.

No. 523.	3 feet	0	6	9
	6 feet	0	10	6
	12 feet	0	14	6
	18 feet	1	1	0
	24 feet	1	5	0
	30 feet	1	10	0

IN SUPERIOR ASS SKIN CAS
Ring Handle.

No. 524.	3 feet	0	6
	6 feet	0	10
	12 feet	0	14
	18 feet	1	1
	24 feet	1	5
	30 feet	1	10

Miner's and Mariner's Compasses.

In Square Mahogany Cases.
(French Polished, with Stop.)

Number.		Each. £.	s.	d.
8927	1¾ inch diameter	0	1	3
8928	2 inches diameter	0	1	6
8925	2½ inches diameter	0	2	0
8926	3 inches diameter	0	2	9

In neat round Mahogany Cases.
(French Polished, with Stop.)

9035	1¾ inch diameter	0	1	8
9036	1¾ inch diameter	0	2	0
9037	2 inches diameter	0	2	3
9038	2½ inches diameter	0	2	9

In neat Brass Cases, with Cover.

		Per dozen. £.	s.	d.
9039	1¾ inch diameter	0	6	6
9040	1¾ inch diameter	0	7	6
9041	1¾ inch diameter	0	10	0
9042	2½ inches diameter	0	19	0

In Brass Cases, with Cover, extra finish

Number.		Each. £.	s.
8949	1¾ inch diameter	0	1
8950	1¾ inch diameter	0	1
8951	1¾ inch diameter	0	1
9013	2½ inches diameter	0	2

In Best Brass Cases, with Cover and St
(Superior.)

8909	1¾ inch diameter	0	2
8910	1¾ inch diameter	0	2
8908	2 inches diameter	0	3
8974	2½ inches diameter	0	4
8929	3 inches diameter	0	6

In Best Brass Cases, with Cover and St
Agate Cap Needle.

9088	1¾ inch diameter	0	3
8998	1¾ inch diameter	0	3
8999	1¾ inch diameter	0	4
8953	2 inches diameter	0	5
8905	2¼ inches diameter	0	6
8930	3 inches diameter	0	8

In Brass Cases, with Cover. Floating Dial.

Number.		Each. £.	s.	d.
8967	1½ inch diameter.....	0	2	0
8952	1¾ inch diameter.....	0	2	6
9012	2½ inches diameter....	0	3	6
9015	3 inches diameter	0	4	9
9016	3½ inches diameter	0	5	9
9017	4 inches diameter	0	6	9

In Best Brass Cases, with Cover, Floating Dial, Agate Cap Needle, and Stop.

8975	1¾ inch diameter.....	0	4	0
8957	2½ inches diameter....	0	5	0
9018	3 inches diameter	0	5	6
9019	3½ inches diameter....	0	7	0
9020	4 inches diameter	0	8	0

In neat White Metal Cases, with Cover.

		Per dozen.		
8995	1¼ inch diameter.....	0	7	0
9148	1½ inch diameter.....	0	8	0
8996	1¾ inch diameter.....	0	9	0
8997	2¼ inches diameter....	0	13	0

In Brass Locket Cases, with Pendant.

8847	1 inch diam., chck. bck.	0	5	6
8899	1 inch diam., plain bck.	0	7	0
8846	1¼ inch diam., chck. bck.	0	7	0
8836	1¼ inch diam., plain bck.	0	10	0
8837	1½ inch diam., ditto....	0	14	0
8900	1¾ inch diam., ditto....	1	0	0

In Gilt Locket Cases, with Pendant.

		Each.		
8864	1 inch diameter.....	0	1	4
8958	1¼ inch diameter.....	0	1	7
9010	1½ inch diameter.....	0	2	0
9011	Ditto, in Morocco case .	0	3	0
9012	1¾ inch diameter.....	0	2	9
9014	Ditto, in Morocco case.	0	3	9

In best Hunting Watch Cases, German Silver, Richly Plated, with Stop.

Number.		Each. £.	s.	d.
9002	1¼ inch diameter.....	0	8	0
9007	Ditto, with agate cap needle.....	0	10	6
9003	1½ inch diameter.....	0	9	0
9008	Ditto, with agate cap needle.....	0	11	6

In best Hunting Watch Cases, Richly Gilt, with real Enamel Dial, Agate Cap Needle, and Stop.

9004	1¼ inch diameter.....	0	13	0
9005	1½ inch diameter.....	0	14	6

Brass Rim, fixed in neat square Leather Cases.

9073	1 inch diameter.....	0	1	1
9075	1¼ inch diameter.....	0	1	3
9077	1½ inch diameter.....	0	1	7
9089	1¾ inch diameter.....	0	2	0

Brass Rim, fixed in Round Morocco Cases.

9076	1¼ inch diameter.....	0	1	6
9078	1½ inch diameter.....	0	1	10
9090	1¾ inch diameter.....	0	2	3

Gilt Rim, in Round Morocco Cases, with Agate Cap Needle, and Stop.

8961	1¼ inch diameter.....	0	3	6
8962	1½ inch diameter.....	0	4	0
8913	1¾ inch diameter.....	0	5	0
8906	2½ inches diameter....	0	7	0

		Per dozen.		
9157	*Small Gilt Trinket Compass, for Ladies*	0	5	0
9150	Superior ditto	0	10	0

Sun Dials.

9064	*Sun Dial and Compass in square box-wood case*	0	4	0

Best Brass Sun Dials with lid.

		Each.		
9100	1½ inch diameter.....	0	4	9
9123	2 inches diameter....	0	6	6
9124	2½ inches diameter....	0	8	6

Best Electrum Sun Dials, with lid.

		Each.		
9141	1¾ inch diameter.....	0	6	0
9142	2 inches diameter....	0	8	0
9143	2½ inches diameter....	0	10	6

Slate Sun Dial, for Garden Pedestal, 12 inches square, with brass Gnomon	0	12	0
Ditto, ditto, with equatorial table	0	14	0
Slate Sun Dial 14 inches square, with 5 Gnomons, equatorial table, &c., indicating for 96 places	2	0	0

Superior Horse-Shoe Magnets.

	Per dozen.		
2½ inch.....	0	3	6
3 inch	0	4	6
4 inch	0	7	6
5 inch	0	10	0
6 inch	0	14	6
7 inch	1	2	0
8 inch	1	7	0
9 inch	1	16	0
10 inch	2	8	0
12 inch	3	12	0
14 inch	4	10	0

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d systems, and for all ranks and ages, but more especially to the
hools for the children of the working classes.

The following Extracts from the Reports of Canon Moseley, in the
inutes of the Committee of Council on Education for 1845, vol. i.
. 254, 228, 229, and for 1846, vol. i. p. 162, will show, on reliable
thority, the great desideratum in common school teaching:—

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lious and difficult task. "

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8. "Considering that *teaching to read* is the principal occupation of our National Schools, that it is a drudgery begun with the first opening intelligence of a child, and continued without intermission until the last day which it passes in the school, it is to me very wonderful that so imperfect and inadequate a result is obtained."

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following extracts will show the opinions entertained of this system by
al educators and experimenters:—

. *Sheriff Watson, of Aberdeen*, a gentle-
known for his benevolent labours in
g Industrial Schools, writes to the
School Union Magazine for Sept., 1854,
t [the Phonetic System] appears to me
e such advantages over the common
[of teaching to read] that I think it
e adopted in the Ragged Schools. The
ses are facility in learning, and correct-
pronunciation, and it has been ascer-
ned a child taught phonetically for six
months can be transferred at once to the
Class Book, and in a week or less will
romanic (or ordinary character) as
the phonetic. Indeed I think it may
the royal road to learning."

. *J. Clay, B.D., Chaplain of the Preston
of Correction*, writes, in his *Annual*
or 1850, p. 32:—"It is enough, we are
assured, that, where there is ordinary
to work upon, the power of reading the
as printed in the phonetic character,
ttained [by adults] in 30 lessons of an
h; and that 20 additional lessons will
r transferring this power to the same
ated in the ordinary character."

*Committee appointed by the Legislature
achusetts, U.S.*, to examine the system,
13th April, 1852:—"The examples the
se have seen, have proved that by means
honetic alphabet, the child or ignorant
s been enabled to learn to read the com-
nt in a much briefer space of time than
. . . The committee would recom-
e introduction of the phonetic system
ing Reform] into all the primary schools
ate, for the purpose of teaching the read-
spelling of the common orthography."

wer of Miss Baxter, teacher of a com-
ool, at Boston, Massachusetts, U.S., to
Kean, the Superintendent of Public
in New York, in 1853. *Question* 1. Can
learn to read phonetically sooner than
rdinary method? *Answer*. From the
se that I have had in teaching both
, I say, without hesitation, that children
read phonotypic books fluently in less
f the time usually occupied in mastering
abet and the simplest words in common
Question 2. After learning the phonetic
can they learn the common method as
accurately? *Answer*. The children
have taught phonetically, read the
print with more correctness and beauty
class I have ever trained by any of
ous modes that have been suggested by
ds of education. In spelling they are
to the other children in the school who
m studying three times as long. The
which this experiment has been tried
e one, numbering nearly seventy pupils
ng but one teacher. The children in
netic class have been studying about one
ring which period they have had no
me devoted to them than an equal
number of the remainder of the school. Their average age is less than seven years.

5. *Mr. Silver*, who has used the system since 1850 in the Town Mission School of Haddington, N.B., says (June, 1856):—"With all the drawbacks and difficulty with which I have to contend in teaching the ragged school here, from the character of the children, the entire want of mental and moral culture at home, and the very irregular attendance of most, I find I teach them to read the common print as quickly as I could, with the old system, teach the children of intelligent parents, parents who took a deep interest in the progress of their children, and assisted them in their lessons at home. I think the phonetic system is as 4 to 1 compared to the old system. It is at least 3 to 1 in point of time, but then when I take into consideration its advantages as a logical training, I cannot properly estimate its superior merits."

6. *From Mr. Williams*, now of the Midland Institute, Birmingham, who tried the system several years in Edinburgh. "The experiment I tried in 1850-1, showed that children averaging five years of age could learn to read books printed in the phonetic type in one third or one fourth of the time which children between six and seven years of age could, without the intervention of the phonetic system, learn to read the common romanic books [*i. e.* those in the ordinary print], and when these younger children had been between ten and eleven months learning to read through the intervention of the phonetic system, they could read books printed in the romanic [or ordinary type] quite as well as the elder class which had been engaged double the time, learning to read without the intervention of the phonetic system. This experiment was carefully made, the two classes working side by side at the same time, day by day. Subsequent experience has fully confirmed the result of this experiment. As regards the intelligence and pleasure of the children, I prefer the phonetic method most decidedly—[and also] as regards the labour and comfort of teaching to read. The changing from the phonetic to the romanic reading is a matter of very little difficulty indeed, provided the children are carried far enough with the phonetic to read it easily without spelling."

7. *From Mr. Chapman*, teacher of (the late) Lord Shrewsbury's school at Alton. "I have continued to practise the phonetic system in my school with unabated zeal and pleasure from Nov. 1854 till now (June, 1856), and my opinion of its superior merits has become more and more corroborated by daily experience. I can satisfy any person who is willing to honour me with a visit at my school, that, as soon as the children are made acquainted with the contents of the *Phonetic Primer* they may commence reading in a Romanic Primer and may continue afterwards the alternate use of phonetic and romanic books, the former rendering essential service to the deciphering of the words in the latter."

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2. The Association does *not* contemplate the introduction of any change in the existing English orthography.

3. The affairs of the Association are managed by a *President*, *Treasurer*, *Secretary*, and a *Committee* elected from among the *governing members*, being annual subscribers of twenty shillings or upwards, or donors of ten pounds in one sum.

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E YEARS' EXPERIENCE OF THE READING REFORM,

N and Improved System of Teaching to Read in dinary Print by means of a Previous Course of tic Reading.

Extracted from an Address delivered before the Ohio Teachers' Association, in the United States, 3 July, 1856,

THE REV. THOMAS HILL, OF WALTHAM, MASS., U.S.
OF THE SCHOOL COMMITTEE IN THAT TOWN, WHERE THE READING REFORM SYSTEM HAS BEEN INTRODUCED INTO ALL THE PUBLIC SCHOOLS.

a boy has been taught his alphabet in the ordinary way, so far from having
step towards learning to read and write his mother tongue, he has taken
most ingenious and effectual modes to render those acquisitions more
As this statement may appear strange to some teachers present, and as
tement of fundamental importance, I will repeat it in a different form.
n, that when you have taken the pains to teach a child his letters in the
way, so far from having helped him in learning to read, you have put a
e obstacle in the way of his learning to read. . . .
roughly am I persuaded of the vast importance of a right beginning in
, that I have frequently urged the school committee, of which I am a
to select the highest grade of teachers for the sub-primary schools, and
higher wages than are paid to the teachers of the primary. I would,
invite you to consider with me the relative value of four different methods
ng a child to read—the only four distinct methods with which I am
d. The first is the ordinary A B C method; the second is what is known
untry as Mrs. Horace Mann's mode [*Look and Say System*];—the third is
rill call W. D. Swan's method [*Phonic System*]; and the fourth is the
mode.
e A B C method, we begin by teaching the child the names of the letters,
&c.; then columns of spelling—b-a, ba, c-a, ka, c-e, se, &c.; and finally
, such as, Do not go, &c. By this process the labour of learning to read is
, and the wonder is, that children learn to read as well as they do. . . .
node which has been called, in this country, the Mrs. Horace Mann
s that of the old Irish song:—

> "To give me good learning my parents agreed,
> And before I could spell, they taught me to read."

en to be an Irish bull, it contains, nevertheless, the germ of a very good
f teaching our English language. The child is taught to recognise *words*
—without knowing the names of the letters. The most frequently occur-
ls are taught to him first, and by the time that he can recognise one
of the principal words of the language, (which does not take him much
an it would to learn the alphabet,) he can read simple child's language with
facility.
ames of the letters are now taught him, and he learns to spell. The great
e of this way over the ordinary method is, that it puts the child at once
possession of valuable knowledge. All that is taught in this way is real
able acquisition; nothing, as in the ordinary way, is given the child to-day
earned to-morrow. It is a very much more rapid mode of learning to read
common way; and is much more generally pleasing to the child. It does
the child from literature.
t fails, *even more decidedly* than the ordinary method, in the cultivation
; *and in enabling the pupil to go on alone.* For a long while, the pupil
this method is puzzled by the appearance of a new word. His knowledge

of similar combinations in what he had previously read, is not called into play, because he has been accustomed to learn each word from the teacher's lips. While, then, this *look-and-say method* is preferable to the common mode of learning to read, it is not perfectly satisfactory. A better method can surely be devised.

A method, better in many respects, is that which I became acquainted with in a little book by W. D. Swan,—a primer in which the words are so arranged that the irregularities are brought in gradually. At first only the regular sounds of the single consonants, and the short sounds of the vowels, (except *y*,) are employed. As, for instance, in such sentences as, "*My cat can lap up milk*," the child is not taught the *names* of the letters, but only their *powers*. Besides the advantage of a rapid acquisition of the power to read, the child learns to read correctly, acquires a good and correct enunciation, and, moreover, has his attention so carefully directed to the letters that compose each word, that he learns to spell well, and is thus able to write as well as read. I therefore consider this mode, by W. D. Swan's primer, better than either of the other two which I have mentioned. Nevertheless, the method has great deficiencies. It requires a curious selection of words for the first pages of the primer, thus leading to awkward sentences; it gives the pupil a false idea that our common print is truly alphabetic; and it thus leads, in some measure, to the same kind of false spelling that is produced by the ordinary A B C mode. If any teacher is unwilling to take so bold a step, as to introduce phonetic type into his school—if he *will* adhere to the twenty-six letters in our ordinary alphabet, let him at least adopt this last-mentioned method, which is as truthful as the falsehood of the subject will admit; and which has the merit of being a truly correct one for training the ear and voice to accuracy of articulation. Let no teacher whose attention has ever been for a moment turned to the subject be again guilty of the barbarity of teaching a child the *names* of the letters before he is familiar with their *powers*.

But for my part I have been now for five years a constant witness to the practical operations of a mode which is of a higher order of excellence. In this mode primers and readers are employed, printed with an enlarged alphabet, containing from forty to forty-three letters, instead of our usual twenty-six. By this means a letter can be appropriated to each simple sound in the language; or, if more than forty letters are employed, to each principal diphthong also; and each sound can be invariably represented by that one letter. These letters are taught not by name but by their powers, and the consequence is, that the moment the child has learned the phonetic alphabet he can read for himself anything printed in phonetic type. The labour of learning to read phonotypy is absolutely nothing to an intelligent child who has been properly taught his phonetic alphabet. It is not repulsive, but exceedingly attractive. As chairman of our School Committee I have been obliged to hear the complaints brought against us for introducing phonetic print into the Waltham Schools, and most of those complaints have really amounted to praise of the system. "What shall I do, Mr. Hill, with my boy?" said an intelligent Irishman to me one day. "Before Phonetic print was introduced into the School I could take some comfort in teaching him to spell, *see, o, double-you, cow*, and such simple words, but now he won't listen to it; he is crazy to be at his Phonetic spelling, making such nonsensical work of it, saying *k'-ow, cow; sh-oo, shoe*. Everything he sees he spells the name of it in the same nonsensical way, and is never tired of doing it; but real sensible spelling I cannot teach him any longer,—I wish you would forbid the teacher to use Phonetic print." I bade the man wait and hope, assuring him his boy was doing well; and a year or two afterward, inquiring of him how his son prospered in his schooling, "Excellently," said he, "excellently; he can read and spell anything in the world now."

Phonotypy is attractive and interesting to the majority of children, and they learn to read it without any compulsion. It furnishes also the means for a very perfect drill in articulation. The whole course of reading is a drill in pronunciation and enunciation; in other systems teachers *can* drill the pupil, but in this system neither teacher nor pupil can avoid the drill. Each word being spelled precisely as it is to be pronounced, nothing but the grossest neglect on the teacher's part can allow any faulty pronunciation to go uncorrected. Nothing can so surely take the foreign accent out of the speech of the children.

It is of course essential to the success of the Phonetic instruction that the children should not, while learning to read, be taught the common names of the letters. They must not learn that *b* is called *bee* as well as *b'*, much less that *g* is *jee* as well as *g'*. Thence arises the most serious practical difficulty in the use of Phonotypy in Public Schools; the parents, like my Irish friend, endeavour to teach the children at home what they call sensible spelling, and the effect of this is to confuse the children between two conflicting views. The child ought to be confined strictly to Phonetic print until it becomes perfectly familiar to him, and he reads it with perfect fluency, before he is allowed to know anything concerning common print.

If this is done, the labour of teaching common print and common spelling is reduced to its minimum. A child who can read Phonetic print fluently can read common print at sight, though at first with some difficulty. A few hours, however, will make it easy; simply because the two prints resemble each other. It is precisely as a person who reads common print well, can in one hour learn to read Phonotypy with ease; or in one hour learn to read Sir John de Mandeville's travels, in the spelling of the fourteenth century. I repeat it, a child who reads Phonetic print well, can in a few hours learn, even without instruction, to read common print. The transition can be made at any time by simply giving the phonetic scholar an interesting story, such as one of the Rollo books, printed in common type.

Spelling will then come by nature. The child will understand that in Phonotypy, alone, must he expect any fixed connexion between spelling and sound. And the very oddity of common spelling, to which his phonetic drilling will forcibly call his attention, will make him remember the spelling. A child taught by phonetic print first, invariably makes a better speller than one taught in ordinary modes.

When the child has passed from the Phonotypy into common type, he may possibly lose the power to read phonetic print *fluently;* but he retains the ability to read it without difficulty; and he thus is provided with an excellent means of noting down pronunciations of geographical or scientific names; and is able to refer with ease to the Phonetic Dictionary, for the pronunciation of new or doubtful words.

I repeat, then, my assertion, FOUNDED UPON FIVE YEARS' CONSTANT USAGE OF THE PHONETIC MODE OF TEACHING, *both in my private experiments, and in the Public Schools of Waltham, that it is vastly superior to the ordinary or A B C mode of teaching children to read.*

I stand here, ladies and gentlemen, in a peculiar position, the representative of a minority among you, appealing to the majority. The minority *for* whom I speak, will, I am afraid, think that I have not yet gone far enough. The majority, to whom I speak, will, I am afraid, think I go too far. I, of course, think that I go just to the right point.

I have discussed the problem of teaching a child to read the English tongue, as printed in ordinary type, because I know that that problem is one of the most interesting and one of the most important that can be brought before an association of teachers; and because I believe that if I could induce any among you to teach by means of phonetic books, I should add greatly to your pleasure and usefulness, to the pleasure and advancement of your pupils.

But I have not advocated what is called the Spelling Reform, because I have thought that that movement is something foreign to your object as an association of teachers, and also because I am not sure that I care to advocate it anywhere, at any time. I doubt whether we are good judges of the nature of a change in the dress of our literature. If we can raise a generation of men who have used Phonotypy in their school studies, they may be qualified to judge of the desirableness of having all our literature thus printed, and I am perfectly willing to leave that question to their decision. . . .

But shall we reject Phonotypy as a means of education because we are not ready to accept it as a Spelling Reform? This would be like rejecting locomotives for journeys, because we doubt whether they will supersede waggons in the streets of the cities. Phonotypy as a means of education has been thoroughly tested and approved by some of the most judicious and conservative men of England and New England. I am ready to maintain its value as a means of education on every ground, in every view of the question. I would have every book which a child reads until the age of eight or nine years, printed in Phonotypy, and I should have no hesitation in postponing the question of its extension into the walks of general literature, for the consideration of a generation educated by its aid. Did I myself feel confident that this extension was desirable, I would as a matter of policy press the other question first, for if the phonetic print approves itself to those who use it, the adoption in all our schools would, in a few years, be followed by its general adoption in periodicals and books. But if, on the other hand, there are serious objections to its use, none will be better able to see the objections than those who have learned to use it. I hold it, therefore, to be perfectly safe, even if we are opposed to the introduction of Phonotypy into general use, to permit its use in the schools; and *I* KNOW *that a thorough trial in school will prove it to be the best means ever devised for teaching children to read and spell our English tongue.*

I might bring forward abundant testimony to sustain this position, testimony from various committees of investigation, consisting of the most cool and impartial men, who have patiently examined the practical working of Phonotypy in the Schools of New *and Old England. No* committee has ever investigated the matter, *and reported against the method.* But I refrain from the citation of testimony *in order to speak of some of the* other advantages which may be gained from *adopting the phonetic type in the* printing of school-books.

I have spoken of the great ease of teaching a child in this manner, and of the beneficial effect upon pronunciation, in preventing or curing provincialisms, foreign accent, and even impediments of speech. In addition to this, it is a natural continuation of that education of the ear which is begun when the child is learning to talk, but which is so commonly wholly rejected afterwards. Every intelligent teacher is aware that the senses should be first cultivated, or rather the powers of perception, in earliest years. Phonotypy furnishes a valuable aid for promoting this work.

Nor is the moral effect to be despised. By making study attractive, and presenting the language in its true garb, instead of under the false pretence of spelling while it does not spell, it gives an intellectual activity, honesty, and industry, that are likely to affect favourably the child's whole course of life.

Among the vast multitudes of our foreign population [in the United States], there are many who use our language, but who can neither read nor write. Nothing but phonetic type offers any practicable way by which this class of our citizens can be taught to read and write, and be thus brought under American influence.

Another advantage in the introduction of phonetic type among young children, is that it prepares them by the analysis of words for the more ready acquisition of the phonetic shorthand, which under the name of Phonography is destined to become as invariable a branch of public education as arithmetic now is. Phonography is too valuable to be withheld from the common people. More rapid than other shorthands, it is also more legible than common longhand, and this combination of brevity with legibility renders it adapted to all the purposes of writing. In our High and Grammar Schools at Waltham we have been teaching it to all the pupils for two years past, and many of them are now able to write with three times the rapidity of the most expert of ordinary penmen, and are constantly gaining in rapidity. Practically we find that those who have been accustomed to analyse words from phonetic print find the least difficulty in mastering this beautiful art of Phonography; and I set so high a value on this art that this becomes to me a strong reason for continuing the use of phonotypic printing in the primary schools.

I have, fellow teachers, thus discussed with you the question of the best mode of teaching children to read. I hope that my remarks have been modest and reasonable, but I know they are without misgiving or doubt. The matter appears to me almost too plain for discussion, and did I not know the strength of prejudice with which we cling to old ways and resist new methods even when they are better than the old, I should suppose that no teacher who ever had his attention called to the subject at all, could willingly teach a young child from any other than a phonetic book.

Extract from the Report of the School Committee of Waltham, Massachusetts, U.S., drawn up by the chairman, Rev. Thomas Hill, June, 1853 :—

Perhaps the most important movement of the committee during the past year has been the introduction of phonetics [or the *Reading Reform*] into *all* the [16] schools. . . . 1) By saving the time spent in the ordinary way of learning to read, it [the Reading Reform] gives opportunity for cultivating a geometrical taste, a taste for natural science, and for arts; and thus gives us an opportunity of remedying what is evidently our most serious defect in common school education. 2) It renders the earliest associations of the child with its book pleasant. 3) It cultivates a truthful habit of analysis of sound, and thus improves, not only the ear, but also the taste and capacity for exactness in all studies. 4) It strengthens and legitimates the present orthography by taking away its false pretension to phonetic power, and giving it its true character of historic growth. Thus also it makes a child less liable to spell incorrectly, because it does not lead him to attempt a representation of the sound of the word in common letters. Nearly all the erroneous spelling that we meet with arises from a phonetic use of the common alphabet; but a child who is acquainted with a truly phonetic alphabet will never attempt the phonetic use of our limited A B C. 5) It corrects bad habits of enunciation, banishes provincial pronunciation, and produces conformity to the highest standard of orthoepy. 6) It affords one of the best means known to cure impediments of speech, and improves defective articulation. 7) It gives us the only reasonable hope of teaching ignorant adults to read.

Issued by the READING REFORM ASSOCIATION.

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call at the bookseller's on the way.	3. Je passerai chez le libraire en allant.
lled me a thief.	4. Il m'a traité de voleur.
the stage-coach call at this inn?	5. Est-ce que la diligence s'arrête à cette auberge?

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1. Prochain. 2. Voisin. 3. Suivant. 4. Premier. 5. Auprès de. 6. Après.

we have the pleasure of seeing you t week?	1. Aurons-nous le plaisir de vous voir la semaine prochaine?
brother is in the next room.	2. Votre frère est dans la chambre voisine.
next day we had a visit from his ıds.	3. Le jour suivant nous reçumes une visite de ses amis.
down the next street on the left, keep straight on.	4. Prenez la première rue à gauche, et allez tout droit.
next to that lady at the opera.	5. J'étais assis auprès de cette dame à l'opéra.
l be my turn next.	6. Ce sera mon tour après.

QUICK.

1. Prompt. 2. Accéléré. 3. Vivant. 4. Fin. 5. Eveillé. 6. Rapide. 7. Mouvant. 8. Vif.

a little; you are too quick.	1. Attendez un peu; vous êtes trop prompt.
: step! March!	2. Pas accéléré! Marche!
uick and the dead.	3. Les vivans et les morts.
ıave a quick ear.	4. Vous avez l'oreille fine.
truly a very quick child.	5. A la vérité c'est un enfant bien éveillé.
ck motion.	6. Un mouvement rapide.
sands.	7. Les sables mouvants.
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they are shewn to be relics or abbreviations, and t
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and the full explanations which are given of the dist
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tary sounds has thus been acquired, much informatio
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when as the simple vowel ê; in what cases the final
with a vowel beginning the next word; on what sy
and when a vowel is long and when short. The obje
convey information of that nature, which it does by
accompanied by a praxis to impress on the mind th
diphthongs, and consonants, and by giving an expl
difficult to be pronounced, and general rules for readi

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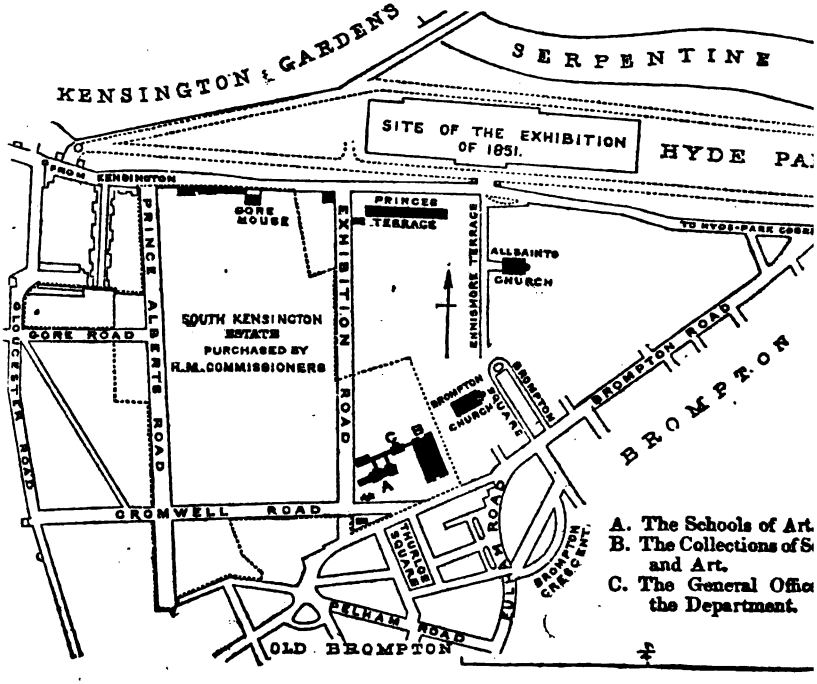
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